

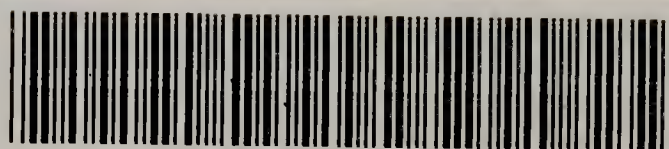


TRIENNIAL REPORT
ON
VACCINATION IN BURMA
FOR THE YEARS 1929-30 to 1931-32

Rangoon
Supdt., Govt. Printing and Stationery, Burma
1932

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RESOLUTION

ON THE

Triennial Report on Vaccination in Burma

For the Years 1929-30 to 1931-32.

Extracts from the Proceedings of the Government of Burma, Public Health Department,—No. 267S32, dated the 3rd October 1932.

READ—

The Triennial Report on Vaccination in Burma for the years 1929-30 to 1931-32.

RESOLVED THAT—

The Report be published.

By order,

H. G. WILKIE,

*Secretary to the Government of Burma,
Education Department.*

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TRIENNIAL REPORT

ON

Vaccination in Burma

For the official years (April to March) 1929-30 to 1931-32.

GENERAL REVIEW—In the three years under review, good progress in the work of the Vaccination Department in both the Province and the Shan States was recorded. The number of vaccinations and revaccinations combined exceeded those of the previous triennium by 309,490. It is encouraging to note that the incidence of smallpox fell during the same period. The following table illustrates this :—

Years.	Incidence of smallpox		Vaccinations performed		
	Attacks.	Deaths.	Primary.	Revaccination.	Total.
(1)	(2)	(3)	(4)	(5)	(6)
1926-27 ...	5,035	2,233	515,359	210,377	725,736
1927-28 ...	8,282	2,452	556,522	323,110	879,632
1928-29 ...	7,137	2,419	615,519	333,203	948,722
Total ...	20,454	7,104	1,687,400	866,690	2,554,090
1929-30 ...	4,748	1,686	628,785	356,459	985,244
1930-31 ...	3,334	837	616,477	283,633	900,110
1931-32 ...	4,790	1,113	605,945	372,281	978,226
Total ...	12,872	3,636	1,851,207	1,012,373	2,863,580
Difference ...	- 7,582	- 3,468	+ 163,807	+ 145,683	+ 309,490

An increase in the strength of the establishment was also recorded. The Vaccination Acts of 1880 and 1909 were extended to the areas of three district councils, *viz.* Lower Chindwin, Myingyan and Meiktila, and to 6 notified areas, *viz.* Minbya, Chauk, Myitnge, Myitkyina, Ye-u and Mawlaik. The Acts appear to have been more universally enforced in the Province as several officers reported prosecutions. No serious opposition to vaccination, however, was encountered. Compulsory revaccination was introduced in 20 towns and in 8 district council areas. These are shown in Appendix C.

The presence of an epidemic of smallpox gives rise to an increased number of vaccinations and revaccinations, as at that time the people are more alive to the dangers of the disease and to the benefits of vaccination. Thus, the vaccination figures for Akyab, Sagaing, Amherst and Rangoon, each of which had an epidemic, show a marked increase. It is pleasing however to note that an increase in vaccinations took place in some districts without the unpleasant stimulus of an epidemic. In these districts such a welcome improvement is to be ascribed to an increased staff, a more rigid enforcement of the vaccination law and to better co-operation on the part of district officials and local bodies. Propaganda also has had its share in the success, as it has helped to educate the people to understand how the scourge of smallpox can be avoided. Continued and increased propaganda will be necessary to gain the wide appreciation of the public regarding the benefit of vaccination.

Statement I.

2. Total Operations—

BURMA—The total number of vaccinations performed in Burma excluding the Shan States during the triennium shows an increase of 271,051 over the previous triennium, as shown below :—

Year.	Number of Operations.		
	Primary.	Revaccination.	Total.
1929-30 to 1931-32	1,667,758	956,079	2,623,837
1926-27 to 1928-29	1,509,796	842,990	2,352,786
Increase	157,962	113,089	271,051

Out of the 38 districts in Burma proper, 26 reported an increase in the combined rural and urban figures and 12 showed a decrease.

The highest increase was reported from Akyab district, where 52,282 more operations were done in this triennium. Of this increase 12,458 were primary operations. The presence of a smallpox epidemic largely accounts for the higher figures.

The second highest increase was reported from Meiktila district, 34,825 more operations being performed during the triennium. These were almost all revaccinations. As there were only a few smallpox cases, the officers and staff deserve credit for this good work.

The third highest increase was reported from Sagaing, 29,961 more operations having been carried out. This district suffers from the failure of the District Council to extend the Vaccination Acts and it is regrettable to have to relate that smallpox was prevalent all through the triennium, just as it was during the previous three years.

Other districts returning a considerable increase are Amherst (+25,731), Mandalay (+22,233), Bassein (+15,650), Insein (+15,480), Rangoon (+15,164), Pyapon (+14,802), Myaungmya (+12,665) and Mergui (+10,422).

The increase in Amherst and Rangoon was mainly due to the presence of a smallpox epidemic. In Mandalay special efforts were made by the municipal health staff in 1930-31 to get the population vaccinated. The District Health Officer, Bassein, reports that a prediction was made by local Burmese sages that a severe outbreak of smallpox would occur in 1930-31 and this unusual reason accounts for the increased numbers who resorted to vaccination. In Insein district good vaccination work by the Hlegu Health Unit helped towards increased figures. There were a few cases of smallpox in Pyapon during the triennium, but none in Myaungmya. The increase in vaccination in these two districts is largely due to the appointment of wholtime Health Officers. Mergui district having been free from smallpox, the increase in vaccination speaks for the good work done by the District Health Officer and his staff.

Of the 12 districts reporting a decrease, Magwe (−21,799), shows the biggest reduction, followed by Minbu (−9,085), Shwebo (−7,822) and Toungoo (−6,884). The absence of severe smallpox in these districts largely accounts for the reduced vaccinations. It is regrettable that the vaccination figures fall on this account for it only means that the people are being lulled into a false sense of security and when next smallpox raises its head in these districts there will be many unfortunate people unable to resist its attack.

SHAN STATES—The total number of vaccinations performed in the Shan States during the triennium shows an increase of 38,439. A total of 239,743 operations were performed during the triennium compared with 201,304 in the previous triennium.

3. Primary Vaccination—

Stat ment I.

BURMA—A total of 1,667,758 primary operations was recorded compared with 1,509,796 during the last triennium—an increase of 157,962 operations.

An increase in rural and urban figures combined over those of the previous triennium was reported from 27 districts and a decrease from 11.

Of the 27 districts, the following 7 districts reported large increases :—Prome (+14,245), Bassein (+14,152), Myingyan (+12,939), Amherst (+12,680), Akyab (+12,458), Sagaing (+12,103), and Insein (+10,045). Considerable increases ranging between 5,000 and 10,000 were reported from 8 districts, *viz.*, Mergui, Yamethin, Myaungmya, Chin Hills, Shwebo, Pyapon, Pegu and Upper Chindwin, the remaining 12 districts reporting increases below 5,000.

Of the 11 districts reporting decreases only Minbu district (—8,799) reported a decrease exceeding 5,000 operations.

SHAN STATES.—In the Federated Shan States, 183,449 primary operations were performed during the triennium compared with 177,604 during the last triennium—an increase of 5,845.

Statement I.

4. Successful Primary Vaccination—

BURMA —Out of a total of 1,583,504 primary verified operations in the triennium, 1,532,817 were reported as successful (the total primary operations being 1,667,758, and the non-verified cases 84,254). Out of a total of 1,430,041 verified operations in the previous triennium, 1,361,350 were reported as successful (the total operations being 1,509,796 and non-verified operations 79,755). The percentage of success in primary known cases is therefore 96·80 for this triennium compared with 95·20 in the last.

A success rate of over 99 per cent in the year 1931-32 was recorded in Rangoon (99·29) and in the districts of Tharrawaddy (99·90), Prome (99·18), Henzada (100), Maubin (99·68), Kyaukse (99·31), and Bhamo (100). In the same year a success rate below 90 per cent was reported from the Hill District of Arakan (84·17), Kyaukpyu, (87·60), the Upper Chindwin (89·59) and the Lower Chindwin (89·20). The low success rate is to be ascribed to the length of time it takes the lymph to reach the vaccinators in the last named districts and the resulting loss of potency of the lymph.

SHAN STATES—Out of a total of 60,529 known operations in the Shan States in 1931-32, 58,775 cases, or 97·10 per cent, were reported as successful, compared with 96·99 per cent in 1930-31 and 97·99 per cent in 1929-30.

Statement I.

5. Revaccination—

BURMA—A total of 956,079 revaccinations was recorded during the triennium, compared with 842,990 during the previous triennium—an increase of 113,089 revaccinations. While this is to be regarded as satisfactory, there is still much room for improvement. The law which makes revaccination compulsory applies at present to only 8 districts. Until it is universally applicable and enforced we will be without one of the great defences against the recurrence of smallpox epidemics, which continue to beset this province.

An increase was reported from 21 districts and a decrease from 17. The biggest increases were in the districts of Akyab (+39,824), Meiktila (+33,490), Mandalay(+22,026), Sagaing (+17,858), Rangoon (+14,968) and Amherst (+13,051). The reasons for the increase in these places have been given in section 2. A large decrease was returned from the districts of Magwe (—21,407) and Shwebo (—14,150), the smaller incidence of smallpox being, as already stated, the cause of the fall.

SHAN STATES—In the Federated Shan States, 56,294 revaccinations were performed compared with 23,700—an increase of 32,594 operations. The health staff are to be congratulated on this.

6. Vaccination in Towns—

BURMA—In the 74 towns to which the Vaccination Acts have been extended (there were 71 towns in the previous triennium), a total of 489,019 operations was performed compared with 400,450 in the previous three years. Of the total operations, 158,367 were primary and 330,652 revaccinations, compared with 147,536 and 252,914 respectively in the previous triennium. Therefore there was an increase of 10,831 in primary operations and of 77,738 in revaccinations during the triennium under review. The percentage of success for the triennium in primary vaccinations was 97·54 and in revaccinations 35·09, compared with 95·25 and 44·35 respectively in the previous three years.

In the year 1931-32, a total of 239,005 operations were performed, compared with 121,617 in 1930-31 and 128,397 in 1929-30. Of the 74 towns, 51 reported an increase and 23 a decrease in the year. The highest increase was reported from Rangoon (+103,392), followed by Insein (+3,557) and Letpadan (+3,434). On the other hand, Mandalay reported a large fall (−10,125), followed by Syriam (−1,670), Moulmein (−808), Kawkareik (−541) and Pyapon (−432). The decreases mainly occurred in revaccinations. Rangoon's large increase was the result of the severe outbreak of smallpox at the beginning of 1932, when many revaccinations were done.

Of the 239,005 operations, 59,240 were primary and 179,765 were revaccinations, and out of the total increase of 117,388, 10,300 were primary and 107,088 were revaccinations.

The percentage of successful cases in primary vaccination was 97·99 and in revaccination 35·03, compared with 97·78 and 36·67 respectively in the previous year.

SHAN STATES—A total of 2,170 operations were performed in the three towns in the Shan States in 1931-32, compared with 1,602 in the previous year. The percentage of successful cases to total verified cases is 98·12 in primary and 47·49 in revaccinations.

7. Revaccination in Towns—

Appendix C.

BURMA—It is gratifying to note that 20 towns out of the 74 in which the Vaccination Acts are in force have framed revaccination rules under Section 12A of the Burma Vaccination Law Amendment Act, 1909, as amended by the Burma Act IV of 1928.

SHAN STATES—Taunggyi and Lashio reported an increase in revaccination during the year 1931-32, while Kalaw returned a decrease. The net increase for the States as a whole was 179.

Appendix B

8. Infant Vaccination in Towns—

BURMA—In the year 1931-32, a total of 42,205 births and 11,527 deaths among infants under one year of age were registered in the 74 towns in which the Vaccination Acts are in force. The number of survivors according to these records is therefore 30,678. During the year, 33,290 infants under one year were successfully vaccinated—2,612 in excess of the recorded survivors.

The number of infants successfully vaccinated was in excess of the recorded survivors in 34 and below in 38 towns. In two towns the figures were the same.

A large excess of infant vaccinations over the available survivors was reported from Rangoon (+1,006), Pegu (+585), Mandalay (+529), Insein (+456) and Thayetmyo (+211).

The excess in Rangoon was partly due to the vaccination of 1,164 infants left unvaccinated below the survivors of the previous year. Pegu reported an excess of 146 in 1930-31 and 585 in 1931-32. One reason given for the latter excess is that owing to the rebellion there was a large influx of people into the town from the surrounding rural areas. Mandalay reported an excess of 1,077 last year and 529 this year. It was stated that the number of primary vaccinations included not only children born in Mandalay but also outside, who happened to come into the town. Insein reported an excess of 169 last year and 456 this year. Probably refugees from disturbed areas accounted for this year's excess. The excess in Thayetmyo was probably due to the same reason.

In eleven towns the number of infant vaccinations exceeded the number of births. These were Pegu, Insein, Thingangyun, Kanbe, Kamayut, Kyangin, Thayetmyo, Chauk, Myitnge, Yamethin and Myinmu. This excess is probably due to defective birth registration and in the cases of Pegu, Insein and Thayetmyo to the influx of families from the country districts during the rebellion.

On the other hand, the number of infants successfully vaccinated under one year was considerably below the number of recorded survivors in Myingyan (−259), Toungoo (−196), Mergui (−172), Pyu (−131), Thongwa (−122), Shwegyin (−120), Pakôkku (−102) and Thaton (−100). No satisfactory reasons were given except in the case of Toungoo where 123 infants were reported to have left the town. The vaccination state of these towns can only be considered as unsatisfactory when all these children remained unprotected at the end of the year.

SHAN STATES—In the 3 notified towns, where the Vaccination Acts are in force, 571 births and 108 deaths were recorded. The number of

recorded survivors was therefore 463, compared with a figure of 340 shown as successfully vaccinated.

9. Dispensary Vaccination—

BURMA—A total of 19,308 vaccinations were performed in hospitals and dispensaries (10,818 primary and 8,490 revaccinations) during the triennium, compared with 20,207 operations (14,321 primary and 5,886 revaccinations) during the previous triennium.

During the year 1931-32, a total of 2,660 primary and 4,286 revaccinations were performed compared with 3,810 and 1,004 in the previous year and 4,348 and 3,200 in 1929-30. Of the 2,660 primary cases, 1,200 were reported as successful and 1,354 as “result of unknown”; out of 4,286 revaccinations, 824 were returned as successful and 468 as unknown. The highest number of dispensary vaccinations was reported from Mandalay town (3,859), followed by Myitkyina district (1,312), Bassein district (364), Hill District of Arakan (343) and Tharrawaddy district (324).

Summary of
Statement I.

SHAN STATES—A total of 2,593 vaccinations were reported from dispensaries in the Shan States for this triennium as against 3,652 in the last triennium.

Of 372 primary vaccinations done in 1931-32, 262 were reported as successful and 104 as unknown; out of 386 revaccinations in the same year, 221 were reported as successful and 151 as unknown.

10. Jail Vaccination—

BURMA—In the Jails 44,836 prisoners were vaccinated in 1931-32, compared with 32,378 in the previous year and 30,386 in 1929-30. Of the 44,836 vaccinations, 1,970 were primary and 42,866 were revaccinations. Of the primary cases, 1,680 were successful, and of the revaccinations, 16,700 were successful. The percentage of success obtained in primary vaccination was therefore 85.28 and in revaccination 38.96 compared with 84.67 and 43.93 per cent respectively in the previous year and 70.44 and 49.77 per cent respectively in 1929-30.

SHAN STATES—No jail vaccination was reported from the Shan States for 1931-32.

11. Vaccination by Private Practitioners—

BURMA—During the year 1931-32 medical practitioners performed 7,574 vaccinations in Burma, compared with 332 in 1930-31 and 877 in 1929-30. The very big increase is due to the epidemic in Rangoon which prevailed during the last three months of 1932, and in that time private practitioners performed a large number of vaccinations.

Summary of
Statement I.

Of the 7,574 operations, 736 were primary and 6,838 were revaccinations ; the percentage of success was 99·30 with primary and 46·81 with verified revaccination cases.

The total number of infants under one year successfully vaccinated by private practitioners was 179 ; between one and six years the figure was 409.

SHAN STATES—Thirty-two primary vaccinations and 1 revaccination were reported as performed by private practitioners in the Shan States, compared with nil last year. All the primary cases were reported as successful.

12. Ship Vaccination—

Under the provisions of Section 9 of the Burma Vaccination Law Amendment Act of 1909, as amended by Burma Act IV of 1928, 165,990 ship vaccinations were performed in the ports of Rangoon and Akyab during the year 1931-32 compared with 194,534 in the previous year and 219,072 in 1929-30. The decrease is due to the smaller number of immigrants.

Rangoon port reported 156,537 and Akyab port 9,453 vaccinations. The results of these cannot be recorded, as passengers are allowed to proceed to their different destinations at once. There is no doubt that this large number of vaccinations at the ports goes a long way towards reducing the incidence of smallpox in Burma.

Statement IV

13. Verification Work of Inspecting Officers—

BURMA—Of the total number of 894,704 persons vaccinated and revaccinated in Burma in the year 1931-32, the District and Assistant District Health Officers and Municipal Health Officers inspected the results of 86,157 or 9·63 per cent, compared with 12·89 per cent in 1930-31 and 11·33 per cent in 1929-30.

Of the total number of 539,503 primary vaccinations in 1931-32, inspectors of vaccination and other inspecting officers verified the result of 325,216 or 60·28 per cent, compared with 56·54 per cent in 1930-31 and 54·42 per cent in 1929-30 ; of a total of 355,201 revaccinations, they verified 152,616 persons or 42·97 per cent, compared with 49·38 per cent in 1930-31 and 44·66 per cent in 1929-30.

SHAN STATES—Of the 82,146 persons vaccinated and revaccinated in the Shan States during 1931-32, the District Health Officers verified the result of 5,680 or 6·91 per cent, compared with 7·14 per cent in 1930-31 and 14·55 per cent in 1929-30.

The percentages of verification work carried out by Inspectors of Vaccination and Head Vaccinators were 60·96 per cent in primary and 23·30 per cent in re-vaccinations, compared with 63·18 per cent and 45·00 per cent respectively in 1930-31 and 65·07 per cent and 26·49 per cent in 1929-30.

14. Establishment—The strength of the vaccination staff employed during the years of the last two triennial periods is shown in the table below :—

Year.	Province or State.	District Superintendents of Vaccination.	Part-time Super- vising Officers.		Inspection t ors of Vaccination	Head Vaccina- tors.	Vaccina- tors.
			Sub- Assistant Sur- geons.	Public Health In- spectors.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1926-27 ... {	Burma ...	39	28	9	41	...	337
	Shan States	2	...	...	1	1	40
1927-28 ... {	Burma ...	39	28	11	42	...	344
	Shan States	2	...	...	1	1	40
1928-29 ... {	Burma ...	39	31	13	41	...	343
	Shan States	2	...	...	1	3	42
Average .. {	Burma ...	39	29	11	41	...	341
	Shan States	2	...	..	1	2	41
1929-30 ... {	Burma ...	39	31	13	38	...	350
	Shan States	2	...	...	2	3	42
1930-31 ... {	Burma ...	38	32	26	39	...	354
	Shan States	2	...	...	2	3	42
1931-32 ... {	Burma ...	38	32	37	39	...	355
	Shan States	2	...	...	2	3	42
Average ... {	Burma ...	38	32	25	39	...	353
	Shan States	2	...	...	2	3	42

It will be noted from this table that the staff has increased in the triennium.

The number of Sub-Assistant Surgeons receiving an allowance for supervision of vaccination remained the same in 1931-32 as in the previous year. The number of Public Health Inspectors supervising vaccination increased by 11—one each in the towns of Kyaukpyu, Maubin, Minbu, Salin, Kyauksè and Pyawbwè, six in the districts of Insein, less one in the district of Toungoo. The increase in the Insein district was due to the inclusion of four Public Health Inspectors employed in the Hlegu Rural Health Unit area and to the employment of two Public Health Inspectors in the rest of the district on verification duty in addition to their ordinary sanitary duties.

There was an increase of one in the number of vaccinators.

To cope with epidemics of smallpox, 20 temporary vaccinators were employed by the Corporation of Rangoon during the latter part of 1931-32, one by the Akyab Municipal Committee for one month, one by the Moulmein Municipal Committee, one in Kyauksè district for one month and one in Hanthawaddy district for one month.

SHAN STATES—The Staff in the Shan States in 1931-32 remained the same as in the year 1930-31.

Statement II.

15. Cost of the Department—

BURMA—The total cost of the Department in Burma, as shown in Statement II, is Rs. 4,26,707-6-8, compared with Rs. 4,26,525-9-4 in 1930-31 and Rs. 4,24,267-1-10 in 1929-30. The average cost of each successful case of vaccination is therefore Re. 0-11-10 as against Re. 0-11-10 in 1930-31 and Re. 0-11-2 in 1929-30. If, however, the sum of Rs. 36,145-5-0 credited to Government, on account of the sale in Burma of vaccine lymph, be deducted from the total expenditure of Rs. 4,26,707-6-8, the net cost of the Department is reduced to Rs. 3,90,562-1-8, compared with net figures of Rs. 3,85,206-7-4 in 1930-31 and Rs. 4,17,302-11-4 in 1929-30. The average cost of each successful case is therefore proportionately reduced to Re. 0-10-10 compared with Re. 0-10-7 in 1930-31 and Re. 0-10-11 in 1929-30.

High rates of average cost are reported from the following districts, *viz.*, Hill District of Arakan (Rs. 1-7-9), Salween District (Rs. 1-6-9), Upper Chindwin (Rs. 1-2-5), Sandoway (Rs. 1-2-2), and Chin Hills (Rs. 1-0-9). The cost given for Rangoon is Rs. 1-3-0.

Travelling in the districts mentioned in the last paragraph is difficult and the population is widely scattered. These facts, together with the low success rate recorded partly owing to difficulties in verification, will necessarily produce a high figure of cost per successful vaccination.

SHAN STATES—The total cost of the Vaccination Department in the Federated Shan States, as shown in Statement II, was Rs. 39,114-11-0, as against Rs. 41,471-2-6 in 1930-31 and Rs. 39,671-5-6 in 1929-30. The cost per successful case of vaccination works out at nine annas four pies compared with eleven annas in 1930-31 and nine annas four pies in 1929-30.

16. Illegal inoculation against Smallpox—

BURMA—In three districts, *viz.*, Sagaing, Kyauksè and Meiktila, cases of illegal inoculation against smallpox were detected. This practice of inoculation is most dangerous as it may give rise to a severe outbreak of smallpox. Four inoculators were fined Rs. 10 each in Sagaing District. The offenders in Kyauksè and Meiktila districts have been prosecuted and the cases were still pending in court at the end of the period under review.

SHAN STATES—No practice of inoculation was reported from the Shan States.

17. Prosecutions under the Vaccination Acts—

BURMA—Prosecutions for infringement of the Vaccination Acts were reported from the towns of Rangoon and Mandalay and from the districts of Thatôn, Amherst, Mergui, Minbu and Myaungmya.

Of six prosecutions made in Rangoon four resulted in conviction, one in acquittal and one was withdrawn.

Under section 18 of the 1880 Act, 59 cases were sent up for trial in Mandalay town. The presiding magistrate passed orders for vaccination which were complied with.

There were 38 prosecutions in Thaton district. In two, fines were imposed, and in the rest, orders for vaccination were passed by the presiding magistrate.

In Amherst district, 13 prosecutions were made and the magistrate passed orders for vaccination which were complied with.

In Mergui district, 43 prosecutions were made. The magistrate has passed orders for vaccination in 33 cases, but 10 cases were still pending at the time of report.

In Minbu, 104 persons were prosecuted and fines totalling Rs. 77 were inflicted.

In Myaungmya, 59 persons were prosecuted. The magistrate passed orders for the vaccination of the children concerned and these were complied with.

SHAN STATES.—No prosecution was reported from the States.

18. Vaccine Depot, Meiktila—The construction of a new operation theatre and operation stable was completed in 1931-32.

OUTPUT OF LYMPH—One hundred and eighty cow calves and 13 buffalo calves were vaccinated during 1931-32. Three cow calves failed to take. The following table shows the output and issue of lymph during the years of the last two triennial periods :—

Year.	Number of calves.	Total yield.		Average yield per calf.		Doses issued.
		Oz.	Grms.	Grms.	Grains.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1926-27 ...	485 cow calves ...	411·43	11,664	24·05	370·36	974,229
1927-28 ...	387 cow calves ...	404·33	11,463	29·62	457·09	1,136,232
	10 buffalo calves ...	47·26	1,340	134·00	2,069·88	...
1928-29 ...	363 cow calves ...	464·80	13,177	36·30	516·18	1,376,338
	15 buffalo calves ...	62·65	1,776	118·40	1,827·14	...
Total ...	1,235 cow calves ...	1,280·56	36,304	29·40	...	3,486,799
	25 buffalo calves ...	109·91	3,116	124·64	...	...
1929-30 ...	297 cow calves ...	484·34	13,731	46·23	713·42	1,443,058
	13 buffalo calves ...	57·24	1,623	124·84	1,926·53	...
1930-31 ...	223 cow calves ...	382·36	10,840	48·61	749·89	1,219,197
	22 buffalo calves ...	97·56	2,766	125·72	1,940·11	...
1931-32 ...	180 cow calves ...	355·87	10,089	56·05	864·96	1,352,382
	13 buffalo calves ...	58·48	1,658	127·54	1,967·06	...
Total ...	700 cow calves ...	1,222·57	34,657	49·51	...	4,014,637
	48 buffalo calves ...	213·28	6,047	125·98	...	...

It will be seen that there is a steady increase in the average yield per calf from year to year during the last six years. The average yield per cow calf in 1930-31 and 1931-32 is double that of 1926-27. Studying the table again, it will be found that to obtain 36,304 grammes of lymph it was necessary in the last triennium to vaccinate 1,235 cow calves, whereas to obtain almost the same quantity of lymph (*i.e.* 34,657), it has been found necessary in this triennium to vaccinate only 700 cow calves, so about 500 calves were saved. This satisfactory progress is to be attributed to the gradual modernization of the Dépôt, beginning with the year 1927. On 1st March 1927, a wholetime Director was appointed and was deputed to study the technique in lymph manufacture at the King's Institute, Guindy, Madras. Various improvements were carried out to the Dépôt, such as the provision of a small bacteriological laboratory, a Benoid gas plant, a better system of water-supply, an ice-plant, an experimental animal house, a post-scraping stable, a Lister oil engine. Previously, the supply of calves was uncertain and at times it failed altogether. The Dépôt has overcome these difficulties by resorting to a system of hiring calves from a contractor, and the supply has proved certain and regular. A sufficient supply of calves enabled the Director of the Dépôt to vaccinate as many calves as could be accommodated in the cold weather months, when the yield is generally at its maximum. Another important factor that helped to increase the average yield of lymph was a reduction in the number of cows that did not take or that yielded poor quality of lymph. There were 33 cow calves of this description in 1926-27, 18 in 1927-28, 5 (also 4 buffalo calves) in 1928-29, 6 in 1929-30, 4 in 1930-31 and 3 only in 1931-32. This was probably due to more thorough isolation of unvaccinated calves and to the hire system of calves resorted to, which enabled the Director to take only healthy calves that were of suitable colour, size, etc.

In 1931-32 there was an opening balance of 5,157 grammes of lymph carried over from the previous year, and 11,747 grammes were manufactured during the year. Of this total of 16,904 grammes of lymph, 12,717 grammes were issued during the year, 687 grammes were used as seed-lymph and a closing balance of 3,500 grammes has been carried over to the year 1932-33.

TECHNIQUE—The seed lymph was passed through the modified Nijland cycle (rabbit - cow calf - buffalo calf - rabbit). All lymph issued was subjected to Cunningham's potency test on cow calves and the Calmette Guerin potency test on rabbits. In addition, at least three children were vaccinated with each lymph and gave an insertion success of 100 per cent before the lymph was issued.

SUPPLY OF LYMPH—Of the 1,352,382 doses of lymph issued, 1,295,715 were supplied to local bodies on payment, and the balance of 56,667

doses to Government institutions free of charge as follows :—5,427 to Military, 36,933 to Jails, 11,100 to Government Vaccinators in the Chin Hills District, 195 to the Public Works Department at Nyaunggyat, 2,244 to the Senior Medical Officer, Port Blair, 201 to the Medical Officer, Port Borington, 15 to the British Military Hospital, Port Blair, 261 to the Superintendent, Mental Hospital, Tadagale, and 291 to the Medical Officer, Borstal Training School, Thayetmyo.

During the triennium, 527,838 more doses of lymph were issued than in the last triennium. This is in keeping with the increased number of operations.

RESULTS—Of 285,263 cases of primary vaccination in 1931-32, the results of which were reported to the Dépôt, a success rate of 95·82 per cent was obtained as against 97·50 per cent in 1930-31. For 91,871 revaccinations reported, the percentage of success was 36·32, compared with 31·20 per cent in the previous year.

DRY LYMPH—A total of 1,700 doses of dry lymph were sent⁷⁸ to Mawlaik, Falam, Loimwe, Hlegu and Andaman Islands. The results, so far reported, from the use of this lymph are rather unfavourable. The dry lymph when used appears to be less potent than the ordinary lymph ; the process of drying seems to destroy a large amount of the virus, and the necessity of its being mixed with glycerine by vaccinators exposes it to contamination.

FINANCE—The total maintenance expenditure of the Dépôt for the year 1931-32 was Rs. 36,901-1-6 and the total net income was Rs. 39,980-8-0, including Rs. 7,328-2-0, balance of the sale proceeds of vaccine lymph outstanding on the 31st March 1931, but excluding Rs. 6,871-7-0 balance of the sale proceeds of lymph outstanding on the 31st March 1932. The net profit after adjustment therefore is Rs. 2,622-11-6.

Of the total expenditure of Rs. 36,901-1-6, a sum of Rs. 16,965-10-0 was expended on establishment, Rs. 7,286-9-0 on medicines and instruments, Rs. 7,967-12-6 on contingencies, Rs. 2,152-0-0 on hire and Rs. 1,407-0-0 on feeding of calves, Rs. 797-8-0 on service postage and telegrams, and Rs. 324-10-0 on petty constructions and repairs.

19. Training Class—Thirty-eight student vaccinators were trained at Meiktila Vaccine Dépôt during 1931-32 and 36 passed the qualifying examination. Twenty-three students undergoing the course of training for Public Health Inspectors were also given training in vaccination at the Dépôt and twenty-two passed the qualifying examination. Owing to the large number of unemployed vaccinators, the October-December and January-March sessions were not held.

20. General Remarks—Mr. G. H. Blaker, I.M.D., was the Director and U Myat Maung, the Assistant Director of the Dépôt

throughout the year. The Dépôt was visited by me during the year, and I was very pleased with the progress made there and with the high standard of professional work.

Several improvements are held up owing to financial stringency. They include the scheme for converting the old operation stable into menial quarters, the construction of a Kentucky septic tank latrine, and the building of a quarantine stable.

E. COTTER, *Major, I.M.S.,*
Offg. Director of Public Health, Burma.

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A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.		Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)		(3)	(4)	(5)	(6)		
						Males.	Females.	Total.
ARAKAN DIVISION.								
1	Akyab District	...	637,580	124	12	24,877	16,386	41,263
	Rural	...	597,242	...	10	17,509	15,569	33,078
	Urban	...	40,338	...	2	7,368	817	8,185
2	Hill District of Arakan	...	21,418	14	3	1,712	1,120	2,832
3	Kyaukpyu District	...	220,292	50	6	7,296	6,683	13,979
	Rural	...	216,060	...	6	7,175	6,605	13,780
	Urban	...	4,232	...	...	121	78	199
4	Sadoway District	...	129,245	34	3	3,329	3,076	6,405
	Rural	...	125,175	...	3	2,854	2,687	5,541
	Urban	...	4,070	...	...	475	389	864
PEGU DIVISION.								
5	Rangoon	...	400,415	5,200	22	99,080	29,128	128,208
6	Pegu District	...	489,969	120	9	13,936	13,549	27,485
	Rural	...	460,467	...	7	10,998	11,538	22,536
	Urban	...	29,502	...	2	2,938	2,011	4,949
7	Tharrawaddy District	...	508,319	178	16	13,004	13,834	26,838
	Rural	...	457,007	...	10	10,110	10,942	21,052
	Urban	...	51,312	...	6	2,894	2,892	5,786
8	Hanthawaddy District	...	408,831	219	10	14,764	11,158	25,922
	Rural	...	384,785	...	7	11,129	10,031	21,160
	Urban	...	24,046	...	3	3,635	1,127	4,762
9	Insein District	...	331,452	174	9	15,337	15,909	31,246
	Rural	...	283,505	...	6	11,823	11,644	23,467
	Urban	...	47,947	...	3	3,514	4,265	7,779
10	Prome District	...	410,651	141	14	16,289	15,471	31,760
	Rural	...	360,469	...	10	13,105	13,371	26,476
	Urban	...	50,182	...	4	3,184	2,100	5,284
IRRAWADDY DIVISION.								
11	Bassein District	...	571,043	138	15	17,051	17,177	34,228
	Rural	...	514,135	...	11	14,541	15,173	29,714
	Urban	...	56,908	...	4	2,510	2,004	4,514

* Secondary
† Work done by other

DEPARTMENT.

Province of Burma during the year 1931-32.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
3,439	18,973	3,420	10,580	17,372	816	1
3,308	17,667	2,902	10,366	16,273	643	
4,093	1,306	518	214	1,099	173	
830	† 1,343	18	462	1,069	73	2
2,326	10,944	1,654	4,699	8,985	687	3
2,297	10,782	1,594	4,656	8,873	672	
...	162	60	43	112	15	
2,135	3,815	1,161	1,518	3,245	368	4
1,847	3,613	1,087	1,462	3,087	351	
...	202	74	56	158	17	
5,539	† 13,482	7,056	3,220	10,871	2,533	5
3,054	18,916	6,110	8,764	17,099	1,632	6
3,219	16,241	4,674	8,244	14,898	1,335	
2,475	2,675	1,436	520	2,201	297	
1,657	18,541	5,614	10,541	18,163	359	7
2,105	16,095	4,564	9,670	15,831	263	
910	† 2,446	1,050	871	2,332	96	
2,592	18,587	5,762	10,217	17,887	457	8
3,023	17,917	5,404	9,922	17,222	457	
1,587	670	358	295	665	...	
3,365	18,170	5,083	9,016	17,137	666	9
3,832	† 15,287	3,749	7,514	14,257	663	
2,431	† 2,883	1,334	1,502	2,880	3	
2,269	25,329	8,846	14,453	24,777	348	10
2,648	23,456	7,462	14,064	22,962	308	
1,321	1,873	1,384	389	1,815	40	
2,258	26,892	4,803	14,608	25,774	574	11
2,668	† 24,083	3,263	13,791	23,069	498	
1,129	2,809	1,540	817	2,705	76	

operations included.

agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
				Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)			(13)	(14)	(15)	(16)	(17)	(18)
ARAKAN DIVISION.									
1	Akyab District	...	...	22,290	4,046	3,059	95·68	21·04	33·59
	Rural	...	...	15,411	1,480	1,044	95·59	10·30	29·72
	Urban	...	...	6,879	2,566	2,015	97·00	52·75	90·86
2	Hill District of Arakan	...	...	† 1,489	709	180	84·17	54·16	83·01
3	Kyaukpyu District	...	...	3,035	954	376	87·60	35·88	45·12
	Rural	...	...	2,998	935	374	87·76	35·63	45·39
	Urban	...	...	† 37	19	2	76·19	54·29	30·95
4	Sandoway District	...	...	2,590	132	739	94·14	7·13	26·13
	Rural	...	...	1,928	77	480	94·64	5·32	25·28
	Urban	...	...	662	55	259	85·41	13·65	52·33
PEGU DIVISION.									
5	Rangoon	...	...	† 114,726	17,693	60,989	99·29	32·93	71·34
6	Pegu District	...	...	8,569	1,380	2,302	98·93	22·02	37·71
	Rural	...	...	6,295	518	1,961	99·95	11·95	33·48
	Urban	...	...	2,274	862	341	92·56	44·59	103·82
7	Tharrawaddy District	...	...	8,297	2,890	2,206	99·90	47·45	41·42
	Rural	...	...	4,957	1,453	1,549	99·99	42·63	37·82
	Urban	...	...	† 3,340	1,437	657	99·23	53·56	73·45
8	Hanthawaddy District	...	...	7,335	1,363	286	98·66	19·34	47·09
	Rural	...	...	3,243	653	173	98·64	21·27	46·45
	Urban	...	...	4,092	710	113	99·25	17·84	57·18
9	Insein District	...	...	13,076	3,331	3,304	97·90	34·09	61·75
	Rural	...	...	† 8,180	1,965	1,883	97·49	31·21	57·22
	Urban	...	...	† 4,896	1,366	1,421	100·00	39·31	88·56
10	Prome District	...	...	6,431	2,423	921	99·18	43·97	66·24
	Rural	...	...	3,020	593	477	99·20	23·32	65·35
	Urban	...	...	3,411	1,830	444	99·02	61·68	72·64
IRRAWADDY DIVISION.									
11	Bassein District	...	...	7,336	2,005	1,566	97·93	34·75	48·65
	Rural	...	...	† 5,631	1,501	1,308	97·81	34·72	47·79
	Urban	...	...	1,705	504	258	98·98	34·83	56·39

† Work done by other

DEPARTMENT.

Province of Burma during the year 1931-32—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
4.30	13.72	31,457	54.57	288	0.50	1
3.64	6.77	...	...	...	...
13.25	29.29	...	...	...	...
5.44	12.09	1,653	79.04	...	...	2
6.28	12.39	8,488	42.46	6	0.03	3
6.23	12.47	...	...	...	...
9.26	5.41	...	...	...	...
9.65	28.53	3,437	30.68	6	0.05	4
9.71	24.90	...	...	...	...
8.42	39.12	...	...	...	...
18.79	53.16	18,903	54.71	130	0.38	5
8.63	26.86	17,846	40.05	76	0.17	6
8.22	31.15	...	...	...	...
11.10	15.00	...	...	...	...
1.94	26.59	24,426	49.60	18	0.04	7
1.63	31.25	...	...	...	...
3.92	19.67	...	...	...	...
2.46	3.90	16,436	45.08	29	0.08	8
2.55	5.33	...	...	...	...
...	2.76	...	...	...	...
3.67	25.27	12,186	42.09	30	0.10	9
4.34	23.02	...	...	...	...
0.10	29.02	...	...	...	...
1.37	14.32	25,530	68.71	96	0.26	10
1.31	15.79	...	...	...	...
2.14	13.02	...	...	...	...
2.13	21.35	22,575	46.12	15	0.03	11
2.07	23.23	...	...	...	...
2.71	15.13	...	...	...	...

agencies and Dispensaries included.

A.—VACCINATION.

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Males.	Females.	Total.
	IRRAWADDY DIVISION— <i>concl'd.</i>						
12	Henzada District ...	613,280	214	15	14,530	15,530	30,060
	Rural ...	568,886	...	12	13,535	14,425	27,960
	Urban ...	44,394	...	3	995	1,105	2,100
13	Myaungmya District ...	444,784	150	15	17,370	18,280	35,650
	Rural ...	419,905	...	12	15,041	16,391	31,432
	Urban ...	24,879	...	3	2,329	1,889	4,218
14	Maubin District ...	371,509	227	12	13,684	13,592	27,276
	Rural ...	346,353	...	9	12,092	12,628	24,720
	Urban ...	25,156	...	3	1,592	964	2,556
15	Pyapon District ...	334,158	156	10	11,937	12,547	24,484
	Rural ...	311,162	...	8	11,254	12,021	23,275
	Urban ...	22,996	...	2	683	526	1,209
	TENASSERIM DIVISION.						
16	Salween District ...	53,186	20	4	4,401	2,895	7,296
17	Thaton District ...	532,628	109	13	13,690	13,974	27,664
	Rural ...	509,166	...	12	13,038	13,654	26,702
	Urban ...	23,462	...	1	652	310	962
18	Amherst District... ..	516,233	73	11	16,678	15,476	32,154
	Rural ...	444,152	...	8	12,552	12,931	25,483
	Urban ...	72,081	...	3	4,126	2,545	6,671
19	Tavoy District ...	179,964	34	6	4,320	4,641	8,961
	Rural ...	150,946	...	4	3,461	4,061	7,522
	Urban ...	29,018	...	2	859	580	1,439
20	Mergui District ...	161,987	16	5	6,463	5,389	11,852
	Rural ...	141,582	...	4	4,912	4,681	9,593
	Urban ...	20,405	...	1	1,551	708	2,259
21	Toungoo District ...	428,670	70	13	11,727	11,431	23,158
	Rural ...	391,764	...	10	10,480	10,217	20,697
	Urban ...	36,906	...	3	1,247	1,214	2,461
	MAGWE DIVISION.						
22	Thayetmyo District ...	274,177	58	8	4,787	4,797	9,584
	Rural ...	252,387	...	6	3,609	3,907	7,516
	Urban ...	21,790	...	2	1,178	890	2,068
23	Minbu District ...	277,876	84	6	4,802	5,054	9,856
	Rural ...	265,217	...	5	4,535	4,803	9,338
	Urban ...	12,659	...	1	267	251	518

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1931-32—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(13)
2,004	27,613	8,510	16,019	26,952	660	12
2,330	26,347	7,412	15,902	25,687	660	
700	1,266	1,098	117	1,265	...	13
2,355	23,534	3,197	12,643	21,997	1,175	
2,593	†21,699	2,584	11,814	20,175	1,163	14
1,406	1,835	613	829	1,822	12	
2,268	21,772	4,174	13,889	21,127	577	14
2,747	*20,524	3,566	13,432	19,940	523	
832	1,248	608	457	1,187	54	15
2,448	17,459	3,665	13,221	16,917	295	
2,909	*16,639	3,286	12,872	16,158	235	15
605	820	379	349	759	60	
1,824	*4,031	116	479	2,956	971	16
2,128	17,537	5,740	8,462	16,228	988	17
2,225	16,928	5,253	8,414	15,662	961	18
962	609	487	48	566	27	
2,920	20,698	5,584	8,773	19,332	1,066	18
3,181	†18,937	3,934	8,755	17,650	1,062	
2,224	*1,761	1,650	18	1,682	4	19
1,494	8,091	5,390	2,508	7,923	9	
1,881	7,168	4,546	2,459	7,021	9	19
720	923	844	49	902	...	
2,370	9,649	1,088	4,292	8,791	607	20
2,398	8,602	756	4,037	7,813	583	
2,259	1,047	332	255	978	24	21
1,781	14,350	2,959	7,916	13,920	267	
2,070	12,095	2,479	7,108	12,527	246	21
820	*1,445	480	808	1,393	21	
1,198	7,809	2,824	4,252	7,463	159	22
1,253	6,611	2,131	3,832	6,350	139	23
1,034	*1,198	693	420	1,113	20	
1,643	10,019	2,292	7,150	9,668	205	23
1,868	*9,520	2,109	6,859	9,194	191	
518	499	183	291	474	14	

operations included.
 agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	IRRAWADDY DIVISION—concl'd.						
12	Henzada District ...	2,447	267	1,404	100·00	25·60	44·38
	Rural ...	1,613	209	1,404	100·00	100·00	45·52
	Urban ...	834	58	...	99·92	6·95	29·80
13	Myaungmya District ...	12,116	2,472	1,834	98·38	24·04	55·01
	Rural ...	† 9,733	2,026	1,789	98·24	25·50	52·87
	Urban ...	2,383	446	45	99·95	19·08	91·16
14	Maubin District ...	5,521	566	468	99·68	11·20	58·39
	Rural ...	4,213	298	343	99·70	7·70	58·43
	Urban ...	† 1,308	268	125	99·41	22·65	57·84
15	Pyapon District ...	7,252	1,050	631	98·56	15·86	53·77
	Rural ...	6,863	999	567	98·50	15·87	55·14
	Urban ...	389	51	64	99·87	15·69	35·22
	TENASSERIM DIVISION.						
16	Salween District ...	* 3,301	748	897	96·60	31·11	69·64
17	Thaton District ...	10,127	1,838	1,319	98·06	20·87	33·92
	Rural ...	9,774	1,653	1,274	98·09	19·45	34·01
	Urban ...	353	185	45	97·25	60·06	32·01
18	Amherst District ...	11,463	2,089	1,275	98·47	20·50	41·49
	Rural ...	6,546	555	774	98·74	9·62	40·99
	Urban ...	4,917	1,534	501	95·73	34·74	44·62
19	Tavoy District ...	870	575	38	98·03	69·11	47·22
	Rural ...	354	272	15	98·07	80·24	48·32
	Urban ...	516	303	23	97·72	61·46	41·53
20	Mergui District ...	2,203	928	195	97·22	46·22	60·00
	Rural ...	991	332	69	97·43	36·01	57·53
	Urban ...	1,212	596	126	95·60	54·88	77·14
21	Toungoo District ...	8,812	1,327	773	98·84	16·51	35·57
	Rural ...	7,792	1,083	737	98·96	15·35	34·74
	Urban ...	1,020	244	36	97·82	24·80	44·36
	MAGWE DIVISION.						
22	Thayetmyo District ...	1,805	581	245	97·56	37·24	29·34
	Rural ...	905	248	10	98·11	27·71	26·14
	Urban ...	900	333	235	94·48	50·08	66·36
23	Minbu District ...	32	16	1	98·51	51·61	34·85
	Rural ...	13	2	1	98·55	16·67	34·67
	Urban ...	19	14	...	97·73	73·68	38·55

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1931-32—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
2.39	57.38	27,861	50.57	34	0.06	12
2.51	87.04	...	...	...	...
...	
4.99	15.14	25,590	69.06	2	0.01	13
5.36	18.38	...	...	...	...
0.65	1.89	...	...	...	...
2.65	8.48	20,454	61.96	20	0.06	14
2.55	8.14	...	...	...	...
4.33	9.56	...	...	...	...
1.69	8.70	19,871	68.76	33	0.12	15
1.41	8.26	...	...	...	...
7.32	16.45	...	...	...	...
24.09	27.17	4,090	81.19	...	...	16
5.63	13.02	18,983	40.30	47	0.10	17
5.68	13.03	...	...	...	...
4.43	12.75	...	...	...	...
5.15	11.12	24,390	58.36	111	0.27	18
5.61	11.82	...	...	...	...
0.23	10.19	...	...	...	...
0.11	4.37	7,613	48.56	1	0.01	19
0.13	4.24	...	...	...	...
...	4.46	...	...	...	...
6.29	8.85	6,227	45.97	...	...	20
6.78	6.96	...	...	...	...
2.29	10.40	...	...	...	...
1.86	8.77	17,070	44.70	147	3.84	21
2.03	9.46	...	...	...	...
1.45	3.53	...	...	...	...
2.04	13.57	10,303	40.34	45	0.18	22
2.10	1.10	...	...	...	...
1.67	26.11	...	...	...	...
2.05	3.13	10,077	36.74	1	0.00	23
2.01	7.69	...	...	...	...
2.81	...	...	...	...	...

operations included.
 agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Male.	Female.	Total.
	MAGWE DIVISION— <i>concl'd.</i>						
24	Magwe District ...	499,573	135	11	9,811	8,440	18,251
	Rural ...	459,097	...	7	8,852	7,497	16,349
	Urban ...	40,476	...	4	959	943	1,902
25	Pakôkku District ...	499,181	80	9	9,685	9,730	19,415
	Rural ...	476,066	...	8	9,348	9,337	18,685
	Urban ...	23,115	...	1	337	393	730
26	Chin Hills District ...	171,237	16	6	5,592	4,674	10,266
	MANDALAY DIVISION.						
27	Mandalay District ...	371,636	174	11	20,412	15,932	36,344
	Rural ...	196,687	...	5	4,666	5,133	9,799
	Urban ...	174,949	...	6	15,746	10,799	26,545
28	Kyauksè District ...	151,320	118	5	4,537	4,669	9,206
	Rural ...	143,967	...	4	4,285	4,401	8,686
	Urban ...	7,353	...	1	252	268	520
29	Meiktila District ...	309,999	140	7	9,890	11,866	21,756
	Rural ...	300,804	...	6	9,485	11,511	20,996
	Urban ...	9,195	...	1	405	355	760
30	Myingyan District ...	472,557	173	12	10,427	10,500	20,927
	Rural ...	438,982	...	10	9,768	9,826	19,594
	Urban ...	33,575	...	2	659	674	1,333
31	Yamèthin District ...	390,820	97	7	12,828	13,079	25,907
	Rural ...	357,713	...	5	9,821	11,199	21,020
	Urban ...	33,107	...	2	3,007	1,880	4,887
	SAGAING DIVISION.						
32	Bhamo District ...	121,193	18	4	2,140	1,986	4,126
	Rural ...	113,366	...	3	1,848	1,675	3,523
	Urban ...	7,827	...	1	292	311	603
33	Myitkyina District ...	171,524	14	4	2,883	2,354	5,237
	Rural ...	164,196	...	3	2,601	2,145	4,746
	Urban ...	7,328	...	1	282	209	491
34	Shwebo District ...	446,790	80	13	11,329	12,534	23,863
	Rural ...	431,765	...	11	10,758	12,067	22,825
	Urban ...	15,025	...	2	571	467	1,038

* Secondary

† Dispensary Vaccination and work

DEPARTMENT.

Province of Burma during the year 1931-32—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
1,659	14,051	6,589	7,028	13,618	278	24
2,335	† 12,587	5,915	6,296	12,212	236	
476	1,464	674	732	1,406	42	
2,157	16,274	6,736	7,045	14,451	609	25
2,336	15,585	6,316	6,907	13,825	573	
730	689	420	138	626	36	
1,711	* 8,791	106	4,305	7,015	205	26
2,953	15,880	8,409	5,770	14,867	587	27
1,960	* 7,028	2,095	3,509	6,142	587	
3,781	*† 8,852	6,314	2,261	8,725	...	
1,841	5,544	3,027	2,231	5,333	174	28
2,172	* 5,242	2,762	2,200	5,037	169	
520	302	265	31	296	5	
3,089	9,283	2,446	4,519	7,474	1,158	29
3,499	8,831	2,139	4,423	7,067	1,124	
626	† 452	307	96	407	34	
1,744	18,930	8,093	6,218	15,198	2,554	30
1,959	* 17,835	7,633	5,988	14,421	2,301	
667	1,095	460	230	777	253	
3,701	16,518	6,188	7,286	14,449	1,567	31
4,204	14,641	5,179	6,664	12,747	1,460	
2,444	1,877	1,009	622	1,702	107	
965	3,585	486	1,765	2,723	862	32
1,085	† 3,186	326	1,552	2,345	841	
603	399	160	213	378	21	
981	4,208	439	1,428	2,459	1,593	33
1,145	† 3,805	305	1,248	2,071	1,581	
491	403	134	180	388	12	
1,836	19,096	5,679	10,684	17,587	649	34
2,075	18,309	5,132	10,516	16,849	626	
519	787	547	168	738	23	

operations included.
done by other Agencies included.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	MAGWE DIVISION— <i>concl'd.</i>						
24	Magwe District ...	4,200	338	1,275	98·87	11·56	27·94
	Rural ...	3,762	270	1,226	98·87	10·65	27·19
	Urban ...	438	68	49	98·87	17·48	36·42
25	Pakôkku District ...	3,141	425	142	92·25	14·17	29·80
	Rural ...	3,100	421	115	92·09	14·10	29·92
	Urban ...	41	4	27	95·87	28·57	27·26
26	Chin Hills District ...	1,482	524	97	81·70	37·83	44·03
	MANDALAY DIVISION.						
27	Mandalay District ...	20,716	6,591	526	97·21	32·64	57·74
	Rural ...	2,965	1,175	504	95·36	47·74	37·20
	Urban ...	† 17,751	5,416	22	98·57	30·55	80·83
28	Kyauksè District ...	3,670	1,359	785	99·31	47·11	44·22
	Rural ...	* 3,452	1,260	700	99·29	45·78	43·74
	Urban ...	218	99	85	99·66	74·44	53·72
29	Meiktila District ...	12,473	3,093	2,276	91·99	30·33	34·09
	Rural ...	12,165	3,060	2,086	91·70	30·36	33·67
	Urban ...	† 308	33	190	97·37	27·97	47·85
30	Myingyan District ...	2,140	305	558	92·81	19·28	32·81
	Rural ...	1,902	292	458	92·84	20·22	33·52
	Urban ...	238	13	100	92·28	9·42	23·53
31	Yamèthin District ...	9,389	2,778	3,419	96·64	46·53	44·08
	Rural ...	6,379	1,937	2,261	96·71	47·04	41·05
	Urban ...	3,010	841	1,158	96·16	45·41	76·81
	SAGAING DIVISION.						
32	Bhamo District ...	541	294	247	100·00	100·00	24·89
	Rural ...	† 337	203	134	100·00	100·00	22·48
	Urban ...	204	91	113	100·00	100·00	59·92
33	Myitkyina District ...	1,029	559	257	94·03	72·41	17·60
	Rural ...	† 941	484	253	93·12	70·35	15·56
	Urban ...	88	75	4	99·23	89·29	63·18
34	Shwebo District ...	4,767	2,392	381	95·34	54·54	44·72
	Rural ...	4,516	2,298	360	95·28	55·29	44·35
	Urban ...	251	94	21	96·60	40·87	55·37

* Secondary
† Dispensary Vaccination and work

DEPARTMENT.

Province of Burma during the year 1931-32—contd.

Percentages of unknown cases/ to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
1.98	30.36	17,933	42.37	88	0.21	24
1.87	32.59	...	...	...	...
2.87	11.19	...	...	...	...
3.74	4.52	13,357	28.68	55	0.12	25
3.68	3.71	...	...	...	...
5.22	65.85	...	...	...	...
2.33	6.55	6,368	48.94	...	...	26
3.70	2.54	18,180	50.98	71	0.20	27
8.35	17.00	...	...	...	...
...	0.12	...	...	...	...
3.14	21.39	6,991	49.00	12	0.08	28
3.22	20.28	...	...	...	...
1.66	38.99	...	...	...	...
12.47	18.25	10,781	37.19	16	0.05	29
12.73	17.15	...	...	...	...
7.52	61.69	...	...	...	...
13.49	26.07	14,316	32.39	295	0.67	30
12.90	24.08	...	...	...	...
23.11	42.02	...	...	...	...
9.49	36.41	17,996	55.68	58	0.18	31
9.97	35.44	...	...	...	...
5.70	38.47	...	...	...	...
24.04	45.66	3,407	30.16	...	...	32
26.40	39.76	...	...	...	...
5.26	55.39	...	...	...	...
37.86	24.98	3,100	21.22	...	...	33
41.55	26.89	...	...	...	...
2.98	4.55	...	...	...	...
3.40	7.99	18,187	47.30	59	0.15	34
3.42	7.97	...	...	...	...
2.92	8.37	...	...	...	...

operations included.
done by other Agencies included.

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
	SAGAING DIVISION—concl'd.				Male.	Female.	Total.
35	Sagaing District ...	335,965	184	8	15,615	20,083	35,698
	Rural ...	316,766	...	6	14,446	18,845	33,291
	Urban ...	19,199	...	2	1,169	1,238	2,407
36	Katha District ...	254,170	33	6	6,333	6,944	13,277
37	Upper Chindwin District ...	204,982	13	7	6,421	6,008	12,429
	Rural ...	202,704	...	7	6,315	5,944	12,259
	Urban ...	2,278	...	...	106	64	170
38	Lower Chindwin District ...	383,434	107	8	9,395	10,446	19,841
	Rural ...	372,634	...	7	9,104	10,210	19,314
	Urban ...	10,800	...	1	291	236	527
	Total for 1931-32 ...	13,102,048	76	355	488,362	406,342	894,704
	Rural ...	11,675,123	...	261	323,088	332,712	655,800
	Urban ...	1,426,925	...	94	165,274	73,630	238,904
	Total for 1930-31 ...	11,698,408	68	354	423,982	400,206	824,188
	Rural ...	10,438,758	...	259	347,677	354,684	702,361
	Urban ...	1,259,650	...	95	76,305	45,522	121,827
	Total for 1929-30 ...	11,698,408	68	350	468,508	431,777	900,285
	Rural ...	10,438,758	...	256	380,550	390,958	771,508
	Urban ...	1,259,650	...	94	87,958	40,819	128,777
	FEDERATED SHAN STATES.						
	Northern Shan States ...	636,107	32	20	18,954	18,213	37,167
	Rural ...	631,469	...	20	18,476	17,969	36,445
	Urban ...	4,638	...	...	478	244	722
	Southern Shan States ...	928,991	23	22	23,339	21,640	44,979
	Rural ...	916,718	...	20	22,458	21,073	43,531
	Urban ...	12,273	...	2	881	567	1,448
	Total for 1931-32 ...	1,565,098	26	42	42,293	39,853	82,146
	Rural ...	1,548,187	...	40	40,934	39,042	79,976
	Urban ...	16,911	...	2	1,359	811	2,170
	Total for 1930-31 ...	1,470,691	24	42	38,053	35,556	73,609
	Rural ...	1,457,057	...	40	37,110	34,897	72,007
	Urban ...	13,634	...	2	943	659	1,602
	Total for 1929-30 ...	1,470,691	24	42	48,518	35,470	83,988
	Rural ...	1,457,057	...	41	48,074	35,267	83,341
	Urban ...	13,634	...	1	444	203	647

* Secondary

† Dispensary Vaccination and work

DEPARTMENT.

the Province of Burma during the year 1931-32—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
4,462	19,289	8,363	9,798	18,355	705	35
5,549	18,062	7,826	9,144	17,154	691	
1,204	1,227	537	654	1,201	14	
2,213	* 11,844	2,139	7,404	11,507	220	
1,752	8,429	1,740	4,317	7,388	183	36
1,727	† 8,271	1,730	4,290	7,278	180	37
...	158	10	27	110	3	38
2,480	11,589	5,330	4,361	9,946	439	
2,759	* 11,213	5,054	4,301	9,607	417	
527	* 376	276	60	339	22	
2,479	*† 540,865	161,576	271,101	498,023	27,275	
2,500	*† 481,625	127,546	254,861	443,951	23,217	
2,409	*† 59,240	34,030	16,240	54,072	4,058	
2 314	*† 556,797	163,223	280,631	511,031	28,928	
2,694	*† 507,674	132,917	267,830	465,996	25,907	
1,273	*† 49,123	30,306	12,801	45,035	3,021	
2,549	*† 570,096	162,168	286,325	523,763	28,051	
2,987	*† 519,827	131,634	273,880	477,419	25,254	
1,351	*† 50,269	30,534	12,445	46,344	2,797	
1,841	28,578	3,748	14,965	27,408	625	
1,805	† 28,340	3,614	14,919	27,178	625	
...	238	134	46	230	...	
2,024	36,502	1,058	12,814	31,367	3,926	
2,155	† 35,855	852	12,508	30,760	3,894	
724	647	206	306	607	32	
1,937	† 65,080	4,806	27,779	58,775	4,551	
1,980	† 64,195	4,466	27,427	57,938	4,519	
724	885	340	352	837	32	
1,731	† 59,680	5,069	28,064	53,997	4,006	
1,817	† 58,718	4,734	27,541	53,055	3,998	
542	962	335	523	942	8	
1,969	† 58,689	4,598	26,053	51,350	6,284	
2,001	† 58,353	4,474	25,865	51,016	6,283	
344	336	124	188	334	1	

operations included.
done by other Agencies included,

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	SAGAING DIVISION— <i>concl'd.</i>						
35	Sagaing District ...	16,409	5,140	3,538	98'77	39'93	69'93
	Rural ...	15,229	4,440	3,426	98'75	37'62	68'17
	Urban ...	1,180	700	112	99'01	65'54	99'02
36	Katha District ...	1,436	270	34	98'99	19'26	46'34
37	Upper Chindwin District ...	4,000	2,106	128	89'59	54'39	46'32
	Rural ...	† 3,988	2,096	128	89'95	54'30	46'24
	Urban ...	12	10	...	70'97	83'33	52'68
38	Lower Chindwin District ...	8,699	5,474	995	89'20	71'05	40'22
	Rural ...	8,546	5,409	964	88'99	71'34	40'30
	Urban ...	153	65	31	95'76	53'28	37'41
	Total for 1931-32 ...	*† 355,215	81,031	99,666	96'97	31'71	44'20
	Rural ...	*† 175,450	42,448	30,055	96'85	29'19	41'66
	Urban ...	† 179,765	38,583	69,611	97'99	35'03	64'93
	Total for 1930-31 ...	*† 269,704	68,578	38,835	96'81	29'70	49'55
	Rural ...	*† 196,833	44,981	30,067	96'73	26'97	48'95
	Urban ...	† 72,871	23,597	8,768	97'69	36'81	54'48
	Total for 1929-30 ...	*† 331,160	85,638	57,201	96'63	31'26	52'09
	Rural ...	*† 252,342	65,868	37,461	96'53	30'65	52'05
	Urban ...	*† 78,818	19,770	19,740	97'62	33'46	52'49
	FEDERATED SHAN STATES.						
	Northern Shan States ...	8,589	5,949	852	98'05	76'89	52'44
	Rural ...	† 8,105	5,729	852	98'06	78'99	52'11
	Urban ...	484	220	...	96'64	45'45	97'02
	Southern Shan States ...	8,477	2,589	516	96'29	32'52	36'55
	Rural ...	† 7,676	2,241	427	96'24	30'91	36'00
	Urban ...	801	348	89	98'70	48'88	77'81
	Total for 1931-32 ...	† 17,066	8,538	1,368	97'10	54'39	43'01
	Rural ...	† 15,781	7,970	1,279	97'09	54'96	42'57
	Urban ...	1,285	568	89	98'12	47'49	83'08
	Total for 1930-31 ...	† 13,929	7,097	248	96'99	51'87	41'54
	Rural ...	† 13,289	6,813	210	96'96	52'09	41'09
	Urban ...	640	284	38	98'74	47'18	89'92
	Total for 1929-30 ...	† 25,299	17,544	590	97'99	71'00	46'84
	Rural ...	† 24,988	17,333	590	97'98	71'04	46'91
	Urban ...	311	211	...	99'70	67'85	39'97

* Secondary
† Dispensary Vaccination and work

DEPARTMENT.

the Province of Burma during the year 1931-32—concl'd.

Percentages of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	
3·65	21·56	20,062	61·37	70	0·21	35
3·83	22·50	...	...	...	...
1·14	9·49	...	...	...	...
1·86	2·37	11,608	49·67	...	...	36
2·17	3·20	7,965	44·43	...	...	37
2·18	3·21	...	...	...	...
1·90	...	...	...	...	...
3·79	11·44	15,022	42·97	66	0·19	38
3·72	11·28	...	...	...	...
5·85	20·26	...	...	...	...
5·04	28·06	560,739	47·93	1,926	0·18	
4·82	17·13	...	...	...	...
6·85	38·72	...	...	...	...
5·20	14·40	557,088	47·62	2,512	0·23	
5·10	15·28	...	...	...	...
6·15	12	...	...	...	...
4·92	17·27	...	...	...	...
4·86	14·85	...	...	...	...
5·56	25·05	...	...	...	...
2·19	9·92	30,532	54·60	...	...
2·21	10·51	...	...	...	...
...	
10·76	6·09	28,622	31·40	...	...
10·86	5·56	...	...	...	...
4·95	11·11	...	...	...	...
6·99	8·02	59,154	40·22	...	...
7·04	8·10	...	...	...	...
3·62	6·93	...	...	...	...
6·71	1·78	60,385	41·06	...	...
6·81	1·58	...	...	...	...
0·83	5·94	...	...	...	...
10·71	2·33	...	...	...	...
10·77	2·36	...	...	...	...
0·30	...	...	...	...	...

operations included.
done by other Agencies included.

SUM

		Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which results were known.	
(1)		Primary. (2)	Re-vaccination. (3)	Primary. (4)	Re-vaccination. (5)	Primary. (6)	Re-vaccination. (7)
Vaccination by Special Staff ...		536,107	344,077	537,469	344,091	96·98	31·71
Dispensary Vaccination ...		2,660	4,286	2,660	4,286	91·88	21·58
Vaccination by private practitioners		736	6,838	736	6,838	99·30	46·81
Total ...		539,503	355,201	540,865	355,215	96·97	31·71
Total for 1930-31 ...		554,517	269,671	556,797	269,704	96·81	29·70
Total for 1929-30 ...		569,295	330,990	570,096	331,160	96·63	31·26
Shan States ...		65,080	17,066	65,080	17,066	97·10	54·39
Total for 1930-31 ...		59,680	13,929	59,680	13,929	96·99	51·87
Total for 1929-30 ...		58,689	25,299	58,689	25,299	97·99	71·00

MARY (Paragraphs 9 and 11).

Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.		Ratio of successful vaccination per 1,000 population.	Total cost of Department.	Average cost of each successful case.
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One year and under six years.			
(8)	(9)	(10)	(11)	(12)	(13)	(14)
					Rs. A. P.	Rs. A. P.
355	2,479	160,542	270,494	43·89	4,26,707 6 8	0 11 10
...	...	855	198	0·15	...	...
...	...	179	409	0·15	...	...
355	2,479	161,576	271,101	44·20	...	...
354	2,134	163,223	280,631	49·55	...	...
350	2,549	162,168	286,325	52·09	...	...
42	1,937	4,806	27,779	43·01	39,114 11 0	0 9 4
42	1,731	5,069	28,064	41·54	41,471 2 6	0 11 0
42	1,969	4,598	26,053	46·84	39,671 5 6	0 9 4

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department in the*

No.	Divisions and Districts.	District Health Officers.	Ex		
			Pay.	Inspector of Vaccination.	Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
ARAKAN DIVISION.					
1	Akyab ... ..	...	...	3	1,200 0 0
2	Hill District of Arakan ...	...	...	...	...
3	Kyaukpyu ... ..	...	...	2	1,006 10 0
4	Sandoway ... ..	...	...	2	1,069 6 0
PEGU DIVISION.					
5	Rangoon ... ..	...	...	2	...
6	Pegu ... ..	...	...	2	2,400 0 0
7	Tharrawaddy ... ..	...	...	6	1,648 12 0
8	Hanthawaddy ... ..	...	...	5	4,359 8 0
9	Insein ... ..	...	...	9	4,122 8 0
10	Prome ... ..	...	...	2	...
IRRAWADDY DIVISION.					
11	Bassein ... ..	...	...	6	2,599 15 0
12	Henzada ... ..	...	...	5	2,194 6 0
13	Myaungmya ... ..	...	...	6	4,744 0 0
14	Maubin ... ..	...	...	5	2,758 5 6
15	Pyapon ... ..	...	...	4	2,372 1 0
TENASSERIM DIVISION.					
16	Salween ... ..	...	...	1	928 10 0
17	Thaton ... ..	...	...	4	2,478 12 0
18	Amherst ... ..	...	...	5	3,984 13 0
19	Tavoy ... ..	...	...	1	1,440 0 0
20	Mergui ... ..	...	...	1	782 6 0
21	Toungoo ... ..	...	...	4	1,353 8 0
MAGWE DIVISION.					
22	Thayetmyo ... ..	...	...	2	1,053 0 0
23	Minbu ... ..	...	...	3	1,181 4 0
24	Magwe ... ..	...	...	4	1,235 0 0
25	Pakokku ... ..	...	...	1	1,463 12 0
26	Chin Hills ... ..	...	...	1	969 6 0

DEPARTMENT.

Province of Burma during the year 1931-32 (Paragraphs 14 and 15).

penditure.

Vacci- nators.	Pay.			Clerks.	Pay.			Peons, etc.	Pay.			Total Pay of Establish- ment.	Travelling Allowance.			No.		
(7)	(8)			(9)	(10)			(11)	(12)			(13)	(14)			(1)		
	Rs.	A.	P.		Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
12	6,080	12	0	...	...			...	...			7,280	12	0	3,656	6	0	1
3	1,649	2	0	..	...			...	...			1,649	2	0	607	0	0	2
6	2,423	9	6	...	...			...	...			3,430	3	6	2,092	11	0	3
3	1,331	9	0	...	...			...	...			2,400	15	0	1,135	10	0	4
22	25,680	5	0	...	...			2	551	4	0	26,231	9	0	1,453	9	6	5
9	5,137	13	0	...	...			...	...			7,537	13	0	3,932	2	6	6
16	7,341	2	0	...	...			1	180	0	0	9,169	14	0	4,352	3	0	7
10	4,522	8	6	...	...			...	...			8,882	0	6	6,418	13	0	8
9	5,311	15	0	...	...			1	105	0	0	9,539	7	0	4,956	9	0	9
14	6,475	8	0	...	...			...	...			6,475	8	0	3,282	5	9	10
15	6,670	0	0	...	...			...	...			9,269	15	0	4,145	2	0	11
15	7,644	4	0	...	...			...	...			9,838	10	0	4,177	3	0	12
15	5,316	3	0	...	...			2	348	3	0	10,408	6	0	6 226	11	0	13
12	5,607	8	9	...	...			...	...			8,365	14	3	3,241	12	0	14
10	4,473	10	0	...	...			1	60	0	0	6,905	11	0	3,207	4	0	15
4	1,591	4	0	...	...			...	...			2,519	14	0	1,971	15	0	16
13	5,877	5	10	...	...			...	...			8,356	1	10	3,619	7	0	17
11	5,671	5	0	...	...			1	180	0	0	9,836	2	0	4,303	10	0	18
6	2,834	10	0	...	...			...	...			4,274	10	0	2,624	6	0	19
5	3,072	4	0	...	...			...	...			3,854	10	0	1,622	6	0	20
13	6,791	2	0	...	...			...	...			8,144	10	0	3,596	5	0	21
8	3,678	8	0	...	...			...	...			4,731	8	0	1,589	10	0	22
6	2,937	3	0	...	...			...	...			4,118	7	0	1,633	12	0	23
11	5,198	7	8	...	...			...	...			6,433	7	8	2,773	5	0	24
9	4,455	5	0	...	...			1	150	5	0	6,069	6	0	3,608	9	0	25
6	3,759	2	0	...	...			1	222	0	0	4,950	8	0	2,948	8	0	26

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department*

No.	Divisions and Districts.	District Health Officers.	Ex		
			Pay.	Inspector of Vaccination.	Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
	MANDALAY DIVISION.				
27	Mandalay ... ..	...	...	3	1,345 8 0
28	Kyauksè ... ..	...	...	2	1,053 0 0
29	Meiktila ... ..	...	...	2	...
30	Myingyan ... ..	...	...	3	2,473 2 0
31	Yamèthin ... ..	...	...	2	1,404 0 0
	SAGAING DIVISION.				
32	Bhamo ... ..	...	...	...	...
33	Myitkyina ... ..	...	...	...	...
34	Shwebo ... ..	...	...	4	1,261 1 0
35	Sagaing ... ..	...	...	1	1,080 0 0
36	Katha ... ..	...	...	2	3,018 9 0
37	Upper Chindwin ... ..	...	...	2	2,807 11 0
38	Lower Chindwin ... ..	...	...	1	1,287 15 0
	OTHERS.				
39	Meiktila Vaccine Depot	2	13,644 9 0	...	...
40	Office of Director of Public Health, Burma. ... ..	...	...	...	...
	TOTAL	2	13,644 9 0	(a) 108	63,076 12 6
	Total for 1930-31	2	13,200 0 0	97	61,822 13 3
	Total for 1929-30	2	17,101 7 0	82	55,226 6 0
	FEDERATED SHAN STATES.				
	Northern Shan States ... ..	...	...	1	1,036 0 0
	Southern Shan States ... ..	...	...	4	3,957 0 0
	TOTAL ... ..	...	...	(b) 5	4,993 0 0
	Total for 1930-31 ... ..	...	...	5	5,340 0 0
	Total for 1929-30 ... ..	...	...	5	4,735 15 0

(a) This includes two Civil Assistant Surgeons, 28 Sub-Assistant Surgeons, one Medical Registrar at Moulmein one
 (b) This includes 3 Head Vaccinators

DEPARTMENT.

in the Province of Burma during the year 1931-32—contd.

penditure.

Vacci- nators.	Pay.			Clerks.	Pay.			Peons, etc.	Pay.			Total Pay of Establish- ment.	Travelling Allowance.			No.
(7)	(8)			(9)	(10)			(11)	(12)			(13)	(14)			(1)
	Rs.	A.	P.		Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.		
11	7,097	0	0	...	...			...	...			8,442	8	0	1,567	27
5	2,166	9	0	...	...			...	...			3,219	9	0	1,480	28
7	2,827	9	0	...	...			...	...			2,827	9	0	846	29
12	5,049	0	0	...	...			2	372	0	0	7,894	2	0	2,966	30
7	3,981	14	0	...	...			...	...			5,385	14	0	1,949	31
4	2,044	11	0	...	...			...	...			2,044	11	0	816	32
4	2,237	12	0	...	...			...	...			2,237	12	0	561	33
13	6,155	0	0	...	...			...	...			7,416	1	0	2,359	34
8	3,379	1	0	...	...			...	...			4,459	1	0	1,880	35
6	3,308	12	0	...	...			...	...			6,327	5	0	2,129	36
7	4,063	11	0	...	...			1	270	0	0	7,141	6	0	3,156	37
8	3,818	12	5	...	...			1	24	0	0	5,130	11	5	1,599	38
...	...			3	2,392	6	0	16	4,371	14	3	20,408	13	3	...	39
...	...			...	...			...	...			...			...	40
355	1,87,662	1	8	3	2,392	6	0	30	6,834	10	3	2,73,610	7	5	1,04,491	0
354	1,81,402	3	10	3	2,425	8	0	26	6,272	4	9	2,65,122	13	10	1,05,212	6
350	1,85,243	3	4	3	1,834	0	0	25	5,941	15	0	2,65,346	15	4	1,01,751	2
20	8,872	15	0	...	...			1	120	0	0	10,028	15	0	4,761	0
22	9,978	8	0	...	...			7	1,795	5	0	15,730	13	0	5,960	0
42	18,851	7	0	...	...			8	1,915	5	0	25,759	12	0	10,721	0
42	18,340	9	0	1	232	4	0	7	1,898	4	0	25,811	1	0	11,510	0
42	17,933	8	0	...	...			8	2,106	2	0	24,775	9	0	11,510	6

Assistant Superintendent of Vaccination at Bassein, 37 Public Health Inspectors and 39 Inspectors of Vaccination.
and 2 Inspectors of Vaccination.

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure.									Deputy Com- missioner's Local Funds.	Provincial Funds.	
		Contingencies.			Total Cost.								
		(15)	(16)	(17)	(18)								
(1)	(2)	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
ARAKAN DIVISION.													
1	Akyab ...	2,189	7	6	13,126	9	6	814	13	0	...	...	...
2	Hill District of Arakan ...	141	15	0	2,398	1	0	2,398	1	0	...	...	...
3	Kyaukpyu ...	243	7	0	5,766	5	6	5,584	15	6	...	...	...
4	Sandoway ...	292	12	0	3,829	5	0	3,649	5	0	...	...	...
PEGU DIVISION.													
5	Rangoon ...	4,793	13	0	32,478	15	6	...	...	...	719	4	0
6	Pegu ...	778	8	0	12,248	7	6	...	...	...	...	...	...
7	Tharrawaddy ...	1,111	1	0	14,633	2	0	...	...	...	...	...	...
8	Hanthawaddy ...	666	2	0	15,966	15	6	...	...	...	...	...	...
9	Insein ...	598	11	3	15,094	11	3	...	...	...	780	2	3
10	Prome ...	995	11	0	10,753	8	9	...	...	...	...	...	...
IRRAWADDY DIVISION.													
11	Bassein ...	1,496	11	0	14,911	12	0	1,963	6	0	...	...	...
12	Henzada ...	1,331	14	0	15,347	11	0	...	...	...	...	...	...
13	Myaungmya ...	1,156	15	0	17,792	0	0	...	...	...	...	...	...
14	Maubin ...	843	10	0	12,451	4	3	...	...	...	...	...	...
15	Pyapon ...	670	0	0	10,782	15	0	...	...	...	...	...	...
TENASSERIM DIVISION.													
16	Salween ...	775	8	0	5,267	5	0	5,267	5	0	...	...	...
17	Thaton ...	853	8	9	12,829	1	7	...	...	...	...	...	...
18	Amherst ...	1,638	14	0	15,778	10	0	4,354	14	0	...	...	...
19	Tavoy ...	10	0	0	6,909	0	0	128	8	0	...	...	...
20	Mergui ...	668	9	3	6,145	9	3	713	14	3	...	...	...
21	Toungoo ...	1,122	4	0	12,863	3	0	2,037	5	0	...	...	...
MAGWE DIVISION.													
22	Thayetmyo ...	464	15	0	6,786	1	0	908	12	0	...	...	...
23	Minbu ...	437	12	0	6,189	15	0	1,629	7	0	...	...	...
24	Magwe ...	755	5	0	9,962	1	8	...	...	...	...	...	...
25	Pakokku ...	864	2	0	10,542	1	0	2,410	3	0	...	...	...
26	Chin Hills ...	...	...	...	7,899	0	0	...	...	...	7,899	0	0

* The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1931-32—contd.

Paid from				Number of all successful vaccinations and re-vacci- nations by special staff only.	Average cost of each successful case.*	No.
District Council Funds.	Municipalities.	Federated Funds.	Total.			
(19)	(20)	(21)	(22)		(24)	(1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
10,474 10 0	1,837 2 6	...	13,126 9 6	21,418	0 9 10	1
...	...	...	2,398 1 0	1,617	1 7 9	2
...	181 6 0	...	5,766 5 6	9,925	0 9 4	3
...	180 0 0	...	3,829 5 0	3,377	1 2 2	4
...	31,759 11 6	...	32,478 15 6	27,382	1 3 0	5
10,929 2 6	1,319 5 0	...	12,248 7 6	18,479	0 10 7	6
10,888 13 0	3,744 5 0	...	14,633 2 0	20,891	0 11 2	7
15,188 10 6	778 5 0	...	15,966 15 6	19,250	0 13 3	8
11,534 10 0	2,779 15 0	...	15,094 11 3	19,935	0 12 1	9
8,005 3 9	2,748 5 0	...	10,753 8 9	27,200	0 6 4	10
10,186 9 0	2,761 13 0	...	14,911 12 0	27,779	0 8 7	11
13,343 11 0	2,004 0 0	...	15,347 11 0	27,219	0 9 0	12
16,219 0 0	1,573 0 0	...	17,792 0 0	24,221	0 11 1	13
10,808 3 3	1,643 1 0	...	12,451 4 3	21,693	0 9 2	14
9,295 9 0	1,487 6 0	...	10,782 15 0	17,967	0 9 7	15
...	...	...	5,267 5 0	3,704	1 6 9	16
11,858 12 3	970 5 4	...	12,829 1 7	18,066	0 11 4	17
6,212 15 0	5,210 13 0	...	15,778 10 0	21,384	0 11 1	18
5,427 11 0	1,352 13 0	...	6,909 0 0	8,498	0 13 0	19
4,488 11 0	943 0 0	...	6,145 9 3	9,719	0 10 1	20
8,731 14 0	2,094 0 0	...	12,863 3 0	15,247	0 13 6	21
5,324 5 0	553 0 0	...	6,786 1 0	8,044	0 13 6	22
3,832 10 0	727 14 0	...	6,189 15 0	9,684	0 10 3	23
7,470 1 8	2,492 0 0	...	9,962 1 8	13,955	0 11 5	24
7,275 13 0	856 1 0	...	10,542 1 0	14,876	0 11 4	25
...	...	...	7,899 0 0	7,539	1 0 9	26

vaccinations and re-vaccinations performed by special staff only (*vide* column 23).

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure.						Deputy Com- missioner's Local Funds.	Provincial Funds.		
		Contingencies.			Total Cost.						
(1)	(2)	(15)			(16)			(17)	(18)		
	MANDALAY DIVISION.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
27	Mandalay ...	1,371	4	0	11,381	0	0	...	690	0	0
28	Kyauksè ...	62	10	0	4,762	15	0	...	...	...
29	Meiktila ...	842	12	0	4,517	4	0	...	...	...
30	Myingyan ...	880	0	0	11,740	14	6	...	...	...
31	Yamèthin ...	649	11	0	7,984	15	0	...	...	...
	SAGAING DIVISION.										
32	Bhamo ...	135	11	0	2,996	15	0	2,461	10	0	
33	Myitkyina ...	114	0	9	2,913	11	6	1,986	11	6	
34	Shwebo ...	865	9	0	10,642	5	0	...	...	...
35	Sagaing ...	...	...	...	6,339	9	0	...	...	...
36	Katha ...	490	7	0	8,947	3	0	8,947	3	0	
37	Upper Chindwin ...	520	8	6	10,817	14	6	10,817	14	6	
38	Lower Chindwin ...	531	5	0	7,261	0	5	...	...	...
	OTHERS.										
39	Meiktila Vaccine Depôt ...	16,492	4	3	36,901	1	6	...	36,901	1	6
40	Office of Director of Public Health, Burma.	746	15	0	746	15	0	...	746	15	0
	Total ...	48,605	9	3	4,26,707	6	8	56,074	3	9	
	Total for 1930-31 ...	56,190	2	0	4,26,525	9	4	55,170	13	0	
	Total for 1929-30 ...	57,169	0	4	4,24,267	1	10	52,470	7	10	
	FEDERATED SHAN STATES.										
	Northern Shan States ...	1,276	6	0	16,066	7	0	...	...	...
	Southern Shan States ...	1,357	1	0	23,048	4	0	...	...	...
	Total, Shan States ...	2,633	7	0	39,114	11	0	...	...	...
	Total for 1930-31 ...	4,149	6	6	41,471	2	6	...	...	...
	Total for 1929-30 ...	3,384	13	0	39,671	5	6	...	...	...

* The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1931-32—concl'd.

Paid from				Number of all successful vaccinations and re-vaccinations by special staff only.	Average cost of each successful case.*	No.
District Council Funds.	Municipalities.	Federated Funds.	Total.			
(19)	(20)	(21)	(22)	(23)	(24)	()
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
4,886 14 0	5,804 2 0	...	11,381 0 0	20,062	0 9 1	27
4,350 1 0	412 14 0	...	4,762 15 0	6,692	0 11 5	28
3,936 14 0	580 6 0	...	4,517 4 0	10,527	0 6 10	29
10,348 15 6	1,391 15 0	...	11,740 14 6	15,503	0 12 1	30
6,788 9 0	1,196 6 0	...	7,984 15 0	17,227	0 7 5	31
...	535 5 0	...	2,996 15 0	3,002	1 0 0	32
...	927 0 0	...	2,913 11 6	2,961	0 15 9	33
9,860 7 0	781 14 0	...	10,642 5 0	19,979	0 8 6	34
5,301 9 0	1,038 0 0	...	6,339 9 0	23,495	0 4 4	35
...	...	...	8,947 3 0	11,777	0 12 2	36
...	...	...	10,817 14 6	9,400	1 2 5	37
6,849 12 5	411 4 0	...	7,261 0 5	15,420	0 7 6	38
...	...	...	36,901 1 6	...	...	39
...	...	...	746 15 0	...	...	40
2,39,820 0 10	83,076 11 4	...	4,26,707 6 8	575,114	0 11 10	
2,44,566 6 7	79,759 6 9	...	4,26,525 9 4	578,575	0 11 10	
2,36,156 12 3	80,463 6 9	...	4,24,267 1 10	607,164	0 11 2	
...	...	16,066 7 0	16,066 7 0	33,103	0 7 9	
...	569 10 0	22,478 10 0	23,048 4 0	33,696	0 10 11	
...	569 10 0	38,545 1 0	139,114 11 0	66,799	0 9 4	
...	798 0 0	40,673 2 6	41,471 2 6	60,493	0 11 0	
...	391 0 0	39,280 5 6	39,671 5 6	68,213	0 9 4	

Vaccinations and re-vaccinations performed by special staff only (*vide* column 23).

COMPARATIVE STATEMENT No. III—*Showing the number of persons vaccinated in the Province of Burma in*

Establishments.	Persons prima									
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
	1922-23.		1923-24.		1924-25.		1925-26.		1926-27.	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Government.	196,950	180,625	180,459	168,357	6,806	4,997	5,673	3,850	5,141	3,745
Municipal	41,884	39,932	41,977	39,974	49,378	47,231	45,781	43,895	45,208	41,841
Local Funds.	270,396	256,235	274,439	261,999	424,954	402,000	436,679	411,970	419,711	387,665
Dispensary	2,883	2,178	4,534	3,673	6,116	5,175	3,759	2,789	3,574	1,890
Other Agencies.	1,007	857	974	695	537	523	287	260	280	253
Total ...	513,120	479,827	502,383	474,698	487,791	459,926	492,179	462,764	473,914	435,394
Federated Shan States.	10,643	10,559	45,671	43,552	48,476	44,673	67,872	64,245	39,998	38,864

primarily vaccinated and the number of those persons who were successfully each of the undermentioned official years.

rily vaccinated.

Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Establish- ments.
1927-28. (7)		1928-29. (8)		1929-30. (9)		1930-31. (10)		1931-32. (11)		(12)
7,770	5,922	10,137	8,478	10,972	7,444	9,581	7,766	9,335	7,566	Government.
47,479	42,732	51,565	47,819	49,272	45,680	48,013	44,130	57,174	52,211	Municipal
432,745	380,584	473,466	440,571	504,704	469,318	492,893	458,389	469,598	436,335	Local Funds.
6,368	2,157	7,105	2,532	4,863	1,819	3,810	546	2,660	1,200	Dispen- sary.
253	229	372	356	665	371	220	200	736	711	Other Agencies.
494,615	431,624	542,645	499,756	570,476	524,632	554,517	511,031	539,503	498,023	Total.
60,034	52,837	71,051	57,133	57,508	50,481	59,680	53,997	65,080	58,775	Federated Shan States.

STATEMENT NO. IV—*Showing particulars of Vaccination verified*

No	Districts.	Total number of persons vaccinated.		Total number inspected			
				By Assistant Director of Public Health or District Health Officer.		By Inspectors of Vaccination or other Inspecting Officers.	
				Primary.	Re-vaccinations.	Primary.	Re-vaccinations.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Akyab ...	18,973	22,290	569	1,017	11,953	16,422
2	Hill District of Arakan ...	1,343	1,489	197	575	41	59
3	Kyaukpyu ...	10,944	3,035	2,440	100	4,712	1,110
4	Sadoway ...	3,815	2,590	139	20	874	260
5	Rangoon ...	13,482	1,14,726	740	2,702	10,179	51,234
6	Pegu ...	18,916	8,569	5,032	1,141	15,184	4,728
7	Tharrawaddy ...	18,541	8,297	209	...	10,175	1,888
8	Hanthawaddy ...	18,587	7,335	3,742	931	15,495	1,641
9	Insein ...	18,170	13,076	1,464	220	9,962	1,601
10	Prome ...	25,329	6,431	1,792	698	14,711	2,214
11	Bassein ...	26,892	7,336	543	...	13,437	3,188
12	Henzada ...	27,613	2,447	2,173	35	13,232	634
13	Myaungmya ...	23,534	12,116	2,123	681	13,894	7,018
14	Maubin ...	21,755	5,521	688	27	18,636	3,771
15	Pyapon ...	17,232	7,252	2,352	783	12,664	4,390
16	Salween ...	4,005	3,291	1,140	947	2,604	2,012
17	Thaton ...	17,537	10,127	416	8	9,269	3,669
18	Amherst ...	20,691	11,463	194	2,891	15,931	8,210
19	Tavoy ...	8,091	870	3,773	460	6,554	59
20	Mergui ...	9,649	2,203	846	895	6,494	801
21	Toungoo ...	14,346	8,812	1	19	7,671	3,643
22	Thayetmyo ...	7,779	1,805	1,120	766	2,210	708
23	Minbu ...	9,824	32	3,008	12	5,142	19
24	Magwe ...	14,051	4,200	161	10	7,497	1,359
25	Pakokku ...	16,274	3,141	1,534	177	7,596	1,703
26	Chin Hills ...	8,784	1,482	1,782	188	4,200	288
27	Mandalay ...	15,628	20,716	628	210	7,237	2,513
28	Kyauksè ...	5,540	3,666	900	25	4,495	1,844
29	Meiktila ...	9,283	12,473	3,828	4,178	8,478	9,745
30	Myingyan ...	18,787	2,140	2,970	557	8,256	1,076
31	Yamèthin ...	16,518	9,389	1,542	42	13,663	1,799
32	Bhamo ...	3,585	541	701	104	...	...
33	Myitkyina ...	4,208	1,029	530	155	...	...
34	Shwebo ...	19,096	4,767	...	...	7,042	1,683
35	Sagaing ...	19,289	16,409	8,130	395	15,348	6,092
36	Katha ...	11,841	1,436	1,645	280	6,896	780
37	Upper Chindwin ...	8,429	4,000	3,163	1,034	6,920	2,446
38	Lower Chindwin ...	11,142	8,699	1,075	584	6,564	2,009
TOTAL		5,39,503	3,55,201	63,290	22,867	3,25,216	1,52,616
TOTAL FOR 1930-31		5,54,517	2,69,671	77,612	28,659	3,13,521	1,33,165
TOTAL FOR 1929 30		5,69,295	3,30,990	66,581	35,407	3,09,802	1,47,818
FEDERATED STATES.							
Northern Shan States		28,578	8,589	3,668	2,012	6,566	1,198
Southern Shan States		36,502	8,477	...	...	33,108	2,778
TOTAL, SHAN STATES		65,080	17,066	3,668	2,012	39,674	3,976
TOTAL FOR 1930-31		59,680	13,929	4,001	1,257	37,704	6,268
TOTAL FOR 1929-30		58,689	25,299	10,008	2,215	38,191	6,702

by Inspecting Officers during the year 1931-32 (Paragraph 13).

Percentage of inspections to total number vaccinated				Percentage of cases found successful of total number inspected				Percentage of success reported by persons performing Vaccinations.		No.
By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.		By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.				
Primary. (9)	Re-vaccinations. (10)	Primary. (11)	Re-vaccinations. (12)	Primary. (13)	Re-vaccinations. (14)	Primary. (15)	Re-vaccinations. (16)	Pri- mary. (17)	Re- vaccina- tions. (18)	
3'00	4'56	63'00	73'67	95'25	31'66	87'65	17'60	95'68	21'04	1
14'67	38'62	3'05	3'96	17'66	57'04	73'17	52'54	84'17	54'16	2
22'30	3'29	43'06	36'57	81'56	48'00	82'09	34'41	87'60	35'88	3
3'64	0'77	22'91	10'04	90'65	...	89'02	4'23	94'14	7'13	4
5'49	2'36	75'50	44'66	99'05	45'89	99'61	32'13	99'29	32'93	5
26'60	13'32	80'27	55'18	99'74	24'36	97'00	18'97	98'93	22'02	6
1'13	...	54'88	22'76	100'00	...	100'00	29'82	99'90	47'45	7
20'13	12'69	83'36	22'37	97'43	8'81	98'39	16'51	98'66	19'34	8
8'06	1'68	54'83	12'24	96'31	55'45	98'92	30'67	97'90	34'09	9
7'07	10'85	58'08	34'43	99'89	64'90	98'52	40'06	99'18	43'97	10
2'02	...	49'97	43'46	...	...	96'40	33'75	97'93	34'75	11
7'87	1'43	47'92	25'91	98'85	25'71	99'18	9'94	100'00	25'60	12
9'02	5'62	59'04	57'92	93'17	18'50	96'92	19'86	98'38	24'04	13
3'16	0'49	85'66	68'30	94'04	59'26	99'83	9'28	99'68	11'20	14
13'65	10'80	73'49	60'54	98'72	7'41	99'51	15'58	98'56	15'86	15
28'46	28'78	65'02	61'14	94'74	27'24	94'70	27'04	96'60	31'11	16
2'37	0'08	52'85	36'23	98'80	...	98'63	13'08	98'06	20'87	17
0'94	25'22	76'99	71'62	98'97	5'64	98'34	15'51	98'47	20'50	18
46'63	52'87	81'00	6'78	97'19	62'61	97'62	49'15	98'03	69'11	19
8'77	40'63	67'30	36'36	91'01	41'34	90'30	40'07	97'22	46'22	20
0'00	0'22	53'47	41'34	100'00	31'58	97'26	14'25	98'84	16'51	21
14'40	42'44	28'41	39'22	91'88	43'99	83'62	75'99	97'56	37'24	22
30'62	37'50	52'34	59'38	88'53	33'33	98'74	73'68	98'51	51'61	23
1'15	0'24	53'36	32'36	98'76	...	97'05	8'17	98'87	11'56	24
9'43	5'64	46'68	54'22	95'57	7'34	91'03	13'92	92'25	14'17	25
20'29	12'69	47'81	19'43	86'31	72'34	83'21	32'64	81'70	37'83	26
4'02	1'01	46'31	12'13	100'00	24'76	96'71	42'62	97'21	32'64	27
16'25	0'68	81'14	50'30	99'44	40'00	99'09	45'01	99'31	47'11	28
41'24	33'50	91'33	78'13	92'53	25'75	92'53	21'98	91'99	30'33	29
15'81	26'03	43'95	50'28	94'41	12'03	91'93	19'24	92'81	19'28	30
9'34	0'45	82'72	19'16	90'66	33'33	96'42	58'75	96'64	46'53	31
19'55	19'22	...	...	71'61	61'54	...	...	100'00	100'00	32
12'60	15'06	...	...	95'28	77'42	...	...	94'03	72'41	33
...	...	36'88	35'31	...	...	92'83	58'41	95'34	54'54	34
42'15	2'41	79'57	37'13	99'80	48'10	96'91	38'26	98'77	39'93	35
13'89	19'50	58'24	54'32	98'54	33'21	97'65	22'31	98'99	19'26	36
37'53	25'85	82'10	61'15	80'62	41'39	82'08	38'88	89'59	54'39	37
9'65	6'71	58'91	23'09	89'77	77'40	92'00	69'49	89'20	71'05	38
11'73	6'44	60'28	42'97	93'56	31'59	95'96	27'36	96'97	31'71	
14'00	10'63	56'54	49'38	92'79	30'66	94'72	24'53	96'81	29'70	
11'70	10'70	54'42	44'66	94'34	28'80	95'57	27'56	96'63	31'26	
12'84	23'43	22'98	13'95	65'57	51'39	85'17	74'29	98'05	76'89	
...	...	90'70	32'77	...	...	90'58	33'80	96'29	32'52	
5'64	11'79	60'96	23'30	65'57	51'39	89'68	46'00	97'10	54'39	
6'70	9'02	63'18	45'00	81'98	34'84	92'14	49'81	96'99	51'87	
17'05	8'76	65'07	26'49	99'84	97'07	93'35	54'85	97'99	71'00	

APPENDIX A.—Statement showing the ratio per 10,000 successfully vaccinated and the mortality from Small-pox by quinquennial periods.

Official Year.		Ratio per 10,000 successfully vaccinated.	Quinquennial mean.	Calendar Year.		Ratio per 10,000 of mortality from small-pox.	Quinquennial mean.
(1)		(2)	(3)	(4)		(5)	(6)
BURMA.							
1916-17	...	387.35	445.63	1916	...	0.72	1.79
1917-18	...	371.15		1917	...	0.57	
1918-19	...	424.46		1918	...	0.76	
1919-20	...	568.98		1919	...	3.99	
1920-21	...	476.39	465.76	1920	...	2.90	2.15
1921-22	...	432.76		1921	...	0.92	
1922-23	...	455.54		1922	...	1.34	
1923-24	...	475.39		1923	...	2.63	
1924-25	...	485.25	479.33	1924	...	2.31	1.78
1925-26	...	479.86		1925	...	3.56	
1926-27	...	420.72		1926	...	2.16	
1927-28	...	454.15		1927	...	1.57	
1928-29	...	505.39	..	1928	...	2.61	1.78
1929-30	...	520.93		1929	...	1.70	
1930-31	...	495.10		1930	...	0.85	
1931-32	...	441.96		1931	...	0.40	
FEDERATED STATES.							
1916-17	...	185.85	170.14				
1917-18	...	156.26					
1918-19	...	139.47					
1919-20	...	168.83					
1920-21	...	195.30	306.69				
1921-22	...	213.08					
1922-23	...	244.21					
1923-24	...	303.97					
1924-25	...	314.93	402.22				
1925-26	...	457.27					
1926-27	...	298.85					
1927-28	...	387.93					
1928-29	...	440.45					
1929-30	...	468.45					
1930-31	...	415.41					
1931-32	...	430.09					

APPENDIX B.—Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age (Paragraph 8).

Towns		Number of births during the year 1931-32.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1932.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
(1)		(2)	(3)	(4)	(5)	(6)
Akyab	...	673	203	511	August 1883 ...	29th March 1910.
Minbya	...	75	13	7	4th March 1930...	9th Sept. 1931.
Kyaukpyu	...	94	19	60	April 1894 ...	Do.
Sadoway	...	100	12	74	September 1890	Do.
Rangoon	...	8,574	2,524	7,056	April 1884 ...	1st May 1909.
Pegu	...	824	216	1,193	March 1893 ...	29th March 1910.
Nyaunglèbin	...	269	93	243	29th March 1910	Do.
Tharrawaddy	...	186	38	182	October 1897.	23rd July 1929.
Thonzè	...	295	55	227	Do. ...	29th March 1910.
Zigon	...	159	33	119	11th May 1914 ...	9th Sept. 1915.
Letpadan	...	221	51	218	January 1897 ...	29th March 1910.
Gyobingauk	...	242	79	124	February 1897 ...	Do.
Minhla	...	118	20	94	11th May 1914 ...	9th Sept. 1915.
Nattalin	...	108	18	86	Do. ...	Do.
Syriam	...	331	56	272	29th January 1913	29th January 1913
Thongwa	...	250	42	86	3rd March 1914	3rd March 1914.
Insein	...	313	104	665	14th March 1912	14th March 1912.
Thamaing	...	114	33	104	26th May 1926 ...	26th May 1926.
Thingangyun	...	143	43	207	Do. ...	Do.
Kanbe	...	151	29	183	Do. ...	Do.
Kamayut	...	143	62	175	Do. ...	Do.
Prome	...	911	149	903	June 1890 ...	29th March 1910.
Shwedaung	...	281	46	184	10th Sept. 1917.	23rd July 1929.
Paungdè	...	363	95	297	August 1890 ...	29th March 1910.
Bassein	...	1,424	320	1,284	September 1888	Do.
Ngathainggyaung	...	161	39	129	February 1890 ...	Do.
Kyonpyaw	...	194	43	127	26th Dec. 1923.	23rd July 1929.
Henzada	...	795	52	760	January 1889 ...	29th March 1910.
Myanaung	...	266	103	163	July 1889 ...	Do.
Kyangin	...	240	240	175	August 1894 ...	Do.
Myaungmya	...	236	57	275	June 1894 ...	Do.
Wakèma	...	272	52	224	27th April 1907 ...	Do.
Moulmeingyun	...	233	102	114	20th July 1925 ...	20th July 1925.
Maubin	...	221	78	192	October 1891 ...	29th March 1910.

APPENDIX B.—Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age—concl'd.

Towns.	Number of births during the year 1931-32.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1932.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
(1)	(2)	(3)	(4)	(5)	(6)
Yandoon ...	311	95	252	January 1892 ...	29th March 1910.
Danubyu ...	207	40	164	9th July 1909.	23rd July 1929.
Pyapon ...	268	59	249	November 1904	29th March 1910.
Kyaiklat ...	245	81	130	15th Dec. 1904 ...	Do.
Thaton ...	541	83	358	October 1891 ...	Do.
Kyaikto ...	199	32	129	March 1897 ...	Do.
Moulmein ...	1,650	276	1,518	August 1885 ...	Do.
Kawkareik ...	306	113	132	September 1914	17th Sept. 1914.
Tavoy ...	869	112	844	December 1889	29th March 1910.
Mergui ...	657	153	332	October 1891 ...	Do.
Toungoo ...	630	66	368	May 1889 ...	Do.
Shwegyin ...	190	23	47	January 1890 ...	Do.
Pyu ...	241	45	65	January 1920 ...	17th January 1920.
Thayetmyo ...	342	104	449	May 1889 ...	29th March 1910.
Allanmyo ...	391	104	244	May 1901 ...	Do.
Minbu ...	224	48	95	March 1896 ...	Do.
Salin ...	177	54	88	Do. ...	Do.
Magwe ...	258	70	147	10th March 1913	10th March 1913.
Taungdwingyi ...	306	139	114	February 1893 ...	29th March 1910.
Yenangyaung ...	422	135	244	10th March 1913	10th March 1913.
Chauk ...	72	38	169	20th May 1929 ...	23rd July 1929.
Pakokku ...	789	267	420	April 1892 ...	29th March 1910.
Mandalay ...	7,550	2,347	5,732	August 1891 ...	Do.
Maymyo ...	770	144	548	October 1912 ...	22nd October 1912.
Myitnge ...	134	45	34	4th June 1930 ...	4th June 1930.
Kyaukse ...	311	111	265	May 1894 ...	29th March 1910.
Meiktila ...	325	123	307	June 1906 ...	31st July 1922
Myingyan ...	948	365	324	September 1891	29th March 1910.
Nyaung-u ...	231	43	136	30th August 1921	30th August 1921.
Yamèthin ...	329	105	331	February 1892 ...	29th March 1910.
Pyinmana ...	686	176	547	November 1891...	Do.
Pyawbwè ...	187	94	131	May 1912.	23rd July 1929.
Bhamo ...	203	43	160	26th October 1894	29th March 1910.
Myitkyina ...	208	51	134	6th May 1929 ...	23rd July 1929.
Shwebo ...	593	177	445	June 1894 ...	29th March 1910.
Ye-u ...	156	33	102	2nd April 1929 ...	23rd July 1929.
Sagaing ...	578	172	315	April 1894 ...	29th March 1910.
Myinmu ...	191	68	222	5th October 1926	5th October 1926.
Mawlaik ...	90	11	10	31st December 1930	31st December 1930
Monywa ...	440	163	276	March 1893 ...	29th March 1910.
Total ...	42,205	11,527	33,290		
FEDERATED STATES.					
Lashio ...	167	37	134	25th July 1927 ...	25th July 1927.
Kalaw ...	70	13	33	Do. ...	Do.
Taunggyi ...	334	58	173	Do. ...	Do.
Total ...	571	108	340		

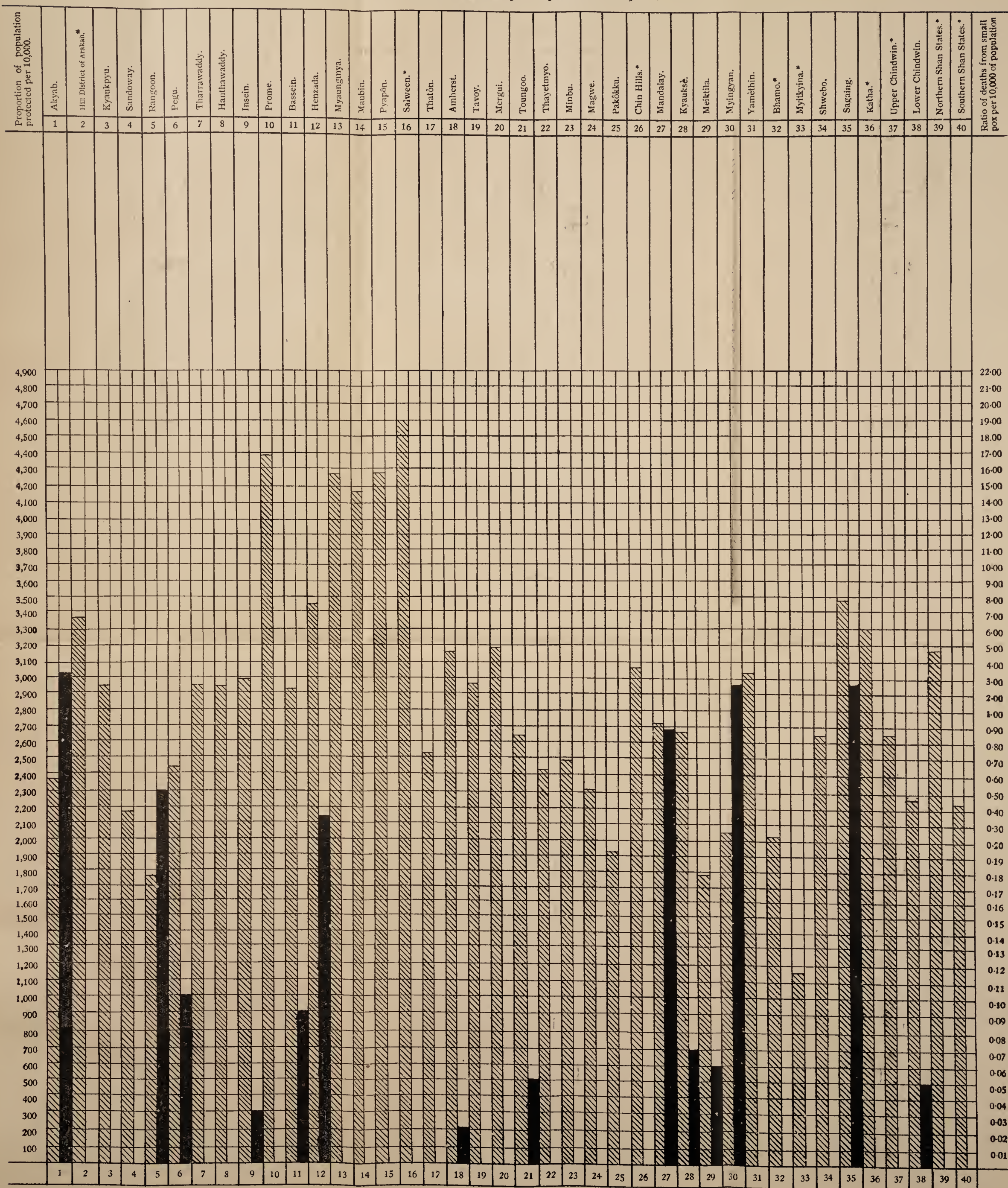
APPENDICES.

APPENDIX C.—*Statement showing the local areas in which revaccination rules under Section 12A of the Burma Vaccination Law Amendment Act, 1909 (as amended by the Burma Act IV of 1928) were in force.*

Serial No.	Name of local areas.				Date of notification.
MUNICIPAL AND NOTIFIED AREAS.					
1	Zigon	...	...	...	16th May 1929.
2	Thingangyun	...	...	...	16th May 1929.
3	Kanbe	...	...	...	16th May 1929.
4	Nyaunglebin	...	...	...	6th June 1929.
5	Thônze	...	...	...	29th August 1929.
6	Syriam	...	...	...	29th August 1929.
7	Myinmu	...	...	...	16th October 1929.
8	Ngathainggyaung	...	...	...	8th January 1930.
9	Moulmeingyun	...	...	...	8th January 1930.
10	Rangoon	...	...	...	4th March 1930.
11	Tharrawaddy	...	...	...	6th May 1930.
12	Prome	...	...	...	18th August 1930.
13	Taungdwingyi	...	...	...	13th January 1931.
14	Thayetmyo	...	...	...	13th January 1931.
15	Henzada	...	...	...	13th January 1931.
16	Tavoy	...	...	...	13th January 1931.
17	Kawkareik	...	...	...	13th January 1931.
18	Nyaung-U	...	...	...	13th January 1931.
19	Akyab	...	...	...	13th January 1931.
20	Mandalay	...	...	...	31st March 1932.
DISTRICT COUNCIL AREAS.					
1	Hanthawaddy	...	...	...	9th January 1932.
2	Pyapôn	...	...	...	28th January 1932.
3	Minbu	...	...	..	1st February 1932.
4	Lower Chindwin	...	...	...	6th February 1932.
5	Kyauksè	...	...	...	6th February 1932.
6	Myingyan	...	...	...	23rd February 1932.
7	Thayetmyo	...	...	...	7th March 1932.
8	Henzada	...	...	.	16th March 1932.

APPENDIX D

Diagram showing the Proportion of Population protected during the seven official years from 1925-26 to 1931-32 and the Death-rate from Small-pox during the year 1931 in districts where full registration is in force.



Indicates proportion of population protected per 10,000.

Indicates ratio of deaths from small-pox per 10,000 of population.

* Full registration of vital statistics is not carried out in these districts.

